





REFERENCE

GP 3.8: 967











# MONTHLY CATALOG

OF UNITED STATES  
GOVERNMENT PUBLICATIONS



---

OCTOBER 1967

Number 873

---

Entries 14730-15820

Issued by the SUPERINTENDENT OF DOCUMENTS

UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 : 1967

L.C. Card 4-18088

FOR SALE BY THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT  
PRINTING OFFICE, WASHINGTON, D.C. 20402. PRICE 50 CENTS PER COPY  
EXCEPT DECEMBER (INDEX) ISSUE, WHICH VARIES IN PRICE  
SUBSCRIPTION PRICE \$4.50 PER YEAR (INCLUDING INDEX)  
\$1.50 ADDITIONAL FOR FOREIGN MAILING

# New Classification Numbers

	Environmental Science Services Administration.
C 52.19: Reserved	
C 52.20: nos-----	ESSA professional papers.
FS 2.22/50-5: date-----	Public Health Service.
	National Clearinghouse for Mental Health Information: Mental health digest.
FS 3.51/3: date-----	Social Security Administration.
	Directory of providers of services: Extended care facilities.
FS 3.52/2: nos-----	TIB (series).
FS 17.1: date-----	Social and Rehabilitation Service.
FS 17.2: CT-----	Annual report.
	General publications.
FS 17.101: date-----	Rehabilitation Services Administration.
FS 17.102: CT-----	Annual report.
	General publications.
FS 17.201: date-----	Children's Bureau.
	Annual report.
FS 17.202: CT-----	NOTE.—See, for earlier class, FS 14.101:(date).
	General publications.
FS 17.203:--208: Reserved	NOTE.—See, for earlier class, FS 14.102:(CT).
FS 17.209: v.nos.& nos-----	Children.
	NOTE.—See, for earlier class, FS 14.109:(v.nos. & nos.).
FS 17.301: date-----	Aging Administration.
	Annual report.
FS 17.302: CT-----	NOTE.—See, for earlier class, FS 15.1:(date).
	General publications.
FS 17.303:--308: Reserved	NOTE.—See, for earlier class, FS 15.2:(GT).
FS 17.309: nos-----	Aging.
	NOTE.—See, for earlier class, FS 15.10:(nos.).
LR 1.6/3: date-----	National Labor Relations Board.
PrEx 1.10/3:--PrEx 1.10/5: Reserved	National Labor Relations Board field manual.
PrEx 1.10/6: date-----	President of United States.
	President's Committee on Employment of the Handicapped: Annual national ability counts contest [announcement].
	NOTE.—See, for earlier class, L 16.44/2: Ab5/2/ date.
PrEx 10.20: CT-----	Economic Opportunity Office.
	So . . . you want to be (series).
TD 2.105: CT-----	Public Roads Bureau.
	Laws.
TD 2.106: CT-----	NOTE.—See, for earlier class, C 37.5:(CT).
	Regulations, rules, and instructions.
TD 2.108: CT-----	NOTE.—See, for earlier class, C 37.6:(CT).
	Handbooks, manuals, guides.
	NOTE.—See, for earlier class, C 37.6/2:(CT).
TD 4.6: pt.nos-----	Federal Aviation Administration.
	Federal aviation regulations.
	NOTE.—See, for earlier class, FAA 1.6/8:(pt. nos.).

## Flight Standards Service.

TD 4.409 : date----- General aviation inspection aids, summary and supplements.

NOTE.—See, for earlier class, FAA 1.31 : (date).  
Coast Guard.

TD 5.15 : Reserved

TD 5.16 : date----- Coast Guard Academy catalogue.

NOTE.—See, for earlier class, T 47.53 : (date).

## Corrections for Previous Monthly Catalogs

Dec. 1966. Page 337, 1st column, add subject Investments : between 37th and 38th lines.

— Page 337, 2d column, correct 1st line to read Investments—Continued.

Apr. 1967. Entry 6207, St. Francis Basin, Ark. and Mo. (local cooperation requirements). Change class to read D 103.22 : Sa 2f/2.

Aug. 1967. Entry 12424, Third-class postal rates, bills and statements of account, hearing. Correct class to read Y 4.P84/11 : P 84/19.



# Classified List of Government Authors

	Beginning Entry
Administrative Office of United States Courts.....	14730
Agriculture Department.....	14735
Agricultural Research Service.....	14733
Consumer and Marketing Service.....	15177
Economic Research Service.....	15209
Farmer Cooperative Service.....	15234
Forest Service.....	15276
Soil Conservation Service.....	15745
Statistical Reporting Service.....	15806
American Battle Monuments Commission.....	14787
Atomic Energy Commission.....	14808
Civil Aeronautics Board.....	14841
Civil Rights Commission.....	14848
Civil Service Commission.....	14854
Commerce Department.....	14880
Business and Defense Services Administration.....	14813
Census Bureau.....	14816
Economic Development Administration.....	15202
Environmental Science Services Administration.....	15230
Coast and Geodetic Survey.....	14873
International Commerce Bureau.....	15339
National Bureau of Standards.....	15584
Clearinghouse for Federal Scientific and Technical Information..	14872
Patent Office.....	15642
United States Travel Service.....	15813
Congress.....	14883
Defense Production Joint Committee.....	14916
Economic Joint Committee.....	14917
House of Representatives.....	14922
Agriculture Committee.....	15010
Appropriations Committee.....	15014
Banking and Currency Committee.....	15018
District of Columbia Committee.....	15021
Education and Labor Committee.....	15023
Foreign Affairs Committee.....	15027
Government Operations Committee.....	15028
House Administration Committee.....	15036
Interior and Insular Affairs Committee.....	15037
Interstate and Foreign Commerce Committee.....	15041
Judiciary Committee.....	15044
Merchant Marine and Fisheries Committee.....	15045
Post Office and Civil Service Committee.....	15046
Public Works Committee.....	15048
Science and Astronautics Committee.....	15049
Veterans' Affairs Committee.....	15050
Ways and Means Committee.....	15051

	Beginning Entry
Congress—Continued	
Printing Joint Committee.....	15054
Senate.....	15055
Aging, Special Committee on.....	15144
Agriculture and Forestry Committee.....	15145
Appropriations Committee.....	15147
Armed Services Committee.....	15148
Banking and Currency Committee.....	15150
Commerce Committee.....	15153
Finance Committee.....	15154
Foreign Relations Committee.....	15155
Government Operations Committee.....	15156
Interior and Insular Affairs Committee.....	15160
Judiciary Committee.....	15165
Labor and Public Welfare Committee.....	15170
Public Works Committee.....	15173
Defense Department.....	15180
Air Force Department.....	14766
Army Department.....	14788
Army Medical Service.....	14806
Civil Defense Office.....	14842
Engineers Corps.....	15224
Joint Chiefs of Staff.....	15342
Navy Department	
Marine Corps.....	15460
Naval Air Systems Command.....	15618
Naval Facilities Engineering Command.....	15619
Naval Operations Office	
Naval Observatory.....	15621
Naval Oceanographic Office.....	15624
Naval Personnel Bureau.....	15631
Naval Academy.....	15617
Naval Research Office.....	15635
Naval Supply Systems Command.....	15640
Yards and Docks Bureau	
See, above, Naval Facilities Engineering Command.	
District of Columbia.....	15201
Federal Home Loan Bank Board.....	15240
Federal Maritime Commission.....	15243
Federal Power Commission.....	15245
Federal Reserve System Board of Governors.....	15248
General Accounting Office.....	15292
General Services Administration.....	15303
Federal Supply Service.....	15251
National Archives and Records Service.....	15583
Transportation and Communications Service.....	15809
Government Printing Office	
Public Documents Division.....	15669
Health, Education, and Welfare Department.....	15316
Education Office.....	15210
Food and Drug Administration.....	15270

	Beginning Entry
Health, Education, and Welfare Department—Continued	
Public Health Service.....	15674
National Library of Medicine.....	15597
Social and Rehabilitation Service	
Aging Administration.....	14732
Children's Bureau.....	14840
Social Security Administration.....	15736
Federal Credit Unions Bureau.....	15239
Welfare Administration	
Family Services Bureau.....	15238
Housing and Urban Development Department.....	15317
Renewal Assistance Administration.....	15725
Interdepartmental Committee on Status of Women.....	15323
Interior Department.....	15324
Federal Water Pollution Control Administration.....	15253
Fish and Wildlife Service.....	15255
Geological Survey.....	15304
Indian Affairs Bureau.....	15321
Land Management Bureau.....	15456
Mines Bureau.....	15462
National Park Service.....	15608
Reclamation Bureau.....	15720
Joint Publications Research Service.....	15343-1
Justice Department.....	15431
Immigration and Naturalization Service.....	15318
Labor Department.....	15432
Employees' Compensation Bureau.....	15219
Labor Statistics Bureau.....	15436
Manpower Administration	
Employment Security Bureau.....	15220
Wage and Hour and Public Contracts Divisions.....	15819
Women's Bureau.....	15820
Library of Congress.....	15458
National Aeronautics and Space Administration.....	15485
National Labor Relations Board.....	15593
National Railroad Adjustment Board.....	15614
National Science Foundation.....	15616
Post Office Department.....	15643
President of United States.....	15663
Executive Office of the President	
Economic Opportunity Office.....	15203
Special Representative for Trade Negotiations, Office of.....	15751
Railroad Retirement Board.....	15719
Renegotiation Board.....	15721
Securities and Exchange Commission.....	15727
Selective Service System.....	15728
Small Business Administration.....	15729
Smithsonian Institution.....	15734
National Museum.....	15599
State Department.....	15752
International Development Agency.....	15341
Tariff Commission.....	15807

	Beginning Entry
Transportation Department	
Coast Guard.....	14876
Federal Aviation Administration.....	15236
Air Traffic Service.....	14784
Airports Service.....	14786
Aviation Medicine Office.....	14811
Flight Standards Service.....	15269
Federal Highway Administration	
Public Roads Bureau.....	15718
Treasury Department.....	15810
Customs Bureau.....	15179
Internal Revenue Service.....	15334
Veterans Administration.....	15815

# Monthly Catalog

NO. 873 • October 1967

## ADMINISTRATIVE OFFICE OF UNITED STATES COURTS Washington, D.C. 20543

- 14730 Report of proceedings of Judicial Conference of United States, Sept. 22-23, 1966. vi+29-70 p. [Also issued as H. doc. 37, 90th Congress, 1st session.]  
† • Item 729  
L.C. card 41-18702 Ju 10.10 : 966
- 14731 — Mar. 30-31, 1967. 1967. vi+51 p. [Also issued as H. doc. 153, 90th Congress, 1st session.] † • Item 729  
L.C. card 41-18702 Ju 10.10/2 : 967

## AGING ADMINISTRATION, Health, Education, and Welfare Dept. Washington, D.C. 20201

NOTE.—The Administration on Aging has been assigned to the Social and Rehabilitation Service which was established August 15, 1967, by the Secretary of the Department of Health, Education, and Welfare in a major reallignment of Federal welfare rehabilitation and social welfare service programs.

- 14732 Aging; [Olivia W. Coulter, editor]. [Monthly. Issued by Administration on Aging, Welfare Administration, and classified FS 15.10:(nos.), prior to no. 155, Sept. 1967.] \* Paper, \$1.00 a yr., 50c additional for foreign mailing; single copy, 10c. (1-3 yr. subs.). • Item 444-A  
FS 17.309:(nos.)  
no. 155— Sept. 1967—

## AGRICULTURAL RESEARCH SERVICE, Agriculture Dept. Washington, D.C. 20250

### ARS (series).

- 14733 33-120. Procedures for screening and testing alfalfa for resistance to alfalfa seed chalcid; by M. W. Nielson. Aug. 1967. 10 p. il. 4° †  
L.C. card Agr 67-315 A 77.15 : 33-120
- 14734 Plant quarantine import requirements of South Africa. Aug. 14, 1967. 26 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes summary dated Dec. 16, 1966.] †  
A 77.329 : So 87af/967

## AGRICULTURE DEPARTMENT Washington, D.C. 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

Agriculture handbooks. • Item 3 A 1.76:(nos.)

- 14735 297. Equipment for applying soil pesticides [with list of selected references; by O. K. Hedden, J. D. Wilson, and J. P. Sleesman]. [Jan. 1966, slightly revised July 1967.] [1967.] [2]+37 p. il. (Agricultural Research Service.) [Prepared in cooperation with Ohio Agricultural Research and Development Center.] \* Paper, 20c.

♠For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
•Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## Agriculture handbooks—Continued

- 14736 340. Materials evaluated as insecticides, repellents, and chemosterilants at Orlando and Gainesville, Fla., 1952-64; [by Entomology Research Division], Agricultural Research Service. [Aug. 1967.] [3]+424 p. 4° \* Paper, \$2.50.
- 14737 342. USDA grade names for food and farm products. [Aug. 1967.] 34 p. 4° (Consumer and Marketing Service, Information Division.) [Supersedes Agriculture handbook 157, Grade names used in U.S. standards for farm products.] \* Paper, 25c.

## Agriculture information bulletin.

- 14738 319. Science and improving our environment; [prepared by Agricultural Research Service]. [June 1967.] [4]+8 p. il. 4° † ● Item 4 A 1.75:319

## Farmers' bulletins. ● Item 9

A 1.9:(nos.)

- 14739 2003. Legume inoculation, what it is, what it does; [by Lewis W. Erdman]. [Revised Aug. 1967.] [1967.] li+10 p. il. ([Soil and Water Conservation Research Division; Agricultural Research Service.]) \* Paper, 10c. L.C. card Agr 67-312
- 14740 2160. Growing blackberries; [prepared by Crops Research Division, Agricultural Research Service]. [Revised Sept. 1967.] [1967.] li+10 p. il. \* Paper, 10c. L.C. card Agr 67-314
- 14741 2191. Trefoil production for pasture and hay; [prepared by Crops Research Division, Agricultural Research Service]. [Revised July 1967.] [1967.] 16 p. il. \* Paper, 10c.
- 14742 2201. Growing ginseng; [by Llewelyn Williams]. [Slightly revised Sept. 1967.] [1967.] 8 p. il. ([Crops Research Division, Agricultural Research Service.]) [Supersedes Farmers' bulletin 1184, Ginseng culture.] \* Paper, 5c. L.C. card Agr 67-324

## Home and garden bulletins. ● Item 11

A 1.77:(nos.)

- 14743 59. Simplified clothing construction. [Mar. 1959, slightly revised July 1967.] [1967.] 32 p. il. 4° ([Agricultural Research Service.]) [Supersedes Farmers' bulletin 1954, Making a dress at home.] \* Paper, 25c. L.C. card Agr 67-326
- 14744 74. Food and your weight; [by Louise Page and Lillian J. Fincher]. [Nov. 1960, slightly revised July 1967.] [1967.] [2]+30 p. il. ([Consumer and Food Economics Research Division, Agricultural Research Service.]) \* Paper, 15c.

## Leaflets. ● Item 12

A 1.35:(nos.)

- 14745 268. Eat good breakfast to start good day; [prepared by Consumer and Food Economics Research Division, Agricultural Research Service]. [Revised Apr. 1959, slightly revised Aug. 1967.] [1967.] [8] p. il. narrow 8° \* Paper, 5c.
- 14746 408. Facts about pasteurization of milk; [prepared by Eastern Utilization Research and Development Division, Agricultural Research Service]. [Dec. 1956, slightly revised May 1967.] [1967.] [6] p. il. narrow 8° [Supersedes Leaflet 177, Pasteurization of milk.] \* Paper, 5c.
- 14747 411. Corn earworm in sweet corn, how to control it; [prepared by Entomology Research Division, Agricultural Research Service]. [Revised June 1967.] [1967.] [6] p. il. [One illustration is colored.] \* Paper, 15c.
- 14748 420. Blackleg of cattle; [prepared by Animal Disease and Parasite Research Division, Agricultural Research Service]. [1957, slightly revised Aug. 1967.] [1967.] 4 p. il. [Supersedes Farmer's bulletin 1355, Blackleg, its nature, cause, and prevention.] \* Paper, 5c.
- 14749 496. Field bindweed and its control; [by W. M. Phillips]. [Revised July 1967.] [1967.] 8 p. il. ([Crops Research Division, Agricultural Research Service.]) \* Paper, 5c. L.C. card Agr 67-316
- 14750 546. Fescue foot in cattle, what to do about it; [by Robert C. Buckner and Donald E. LaBore]. [July 1967.] 6 p. il. \* Paper, 5c. L.C. card Agr 67-317

## Marketing research report.

- 14751 792. Insect damage to corn in 3 southeastern States at time of harvest and in farm storage; [by W. G. Eden]. [Aug. 1967.] [2]+9 p. 4° (Agricultural Research Service.) [Prepared under USDA contract 12-25-010-5317, Sept. 11, 1962, with Auburn University Agricultural Experiment Station, Auburn, Ala.] \* Paper, 10c. ● Item 13-B L.C. card Agr 67-327 A 1.82:792

## Miscellaneous publications. ● Item 13-A

A 1.38:(nos.)

- 14752 739. National poultry and turkey improvement plans and auxiliary provisions. [Revised Sept. 1967.] [1967.] cover title, 43 p. il. ([Animal Husbandry Research Division, Agricultural Research Service.]) [Test on p. 2 of cover.] \* Paper, 25c. L.C. card Agr 57-69

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14753 1053. Challenges in forage and range research; [prepared by Forage and Range Research Branch, Crops Research Division]. [July 1967.] 32 p. il. 4° [Agricultural Research Service.] \* Paper, 25c.  
L.C. card Agr 67-318

PA [Program aid] (series). ● Item 14-A A 1.68:(nos.)

- 14754 683. You too can get help. [Nov. 1965, slightly revised Aug. 1967.] [1967.] 24 p. il. 4° \* Paper, 20c.  
14755 775. Avian tuberculosis in hogs, costly livestock disease; [prepared by Animal Health Division, Agricultural Research Service]. [Aug. 1967.] [6] p. il. narrow 8° †  
14756 805. Questions & answers on equine infectious anemia (swamp fever); [prepared by Animal Health Division, Agricultural Research Service]. [Aug. 1967.] 6 p. il. narrow 8° †  
14757 806. Progress under agricultural conservation program (highlights of 1966). May 1967. [4] p. narrow 8° (Agricultural Stabilization and Conservation Service.) †  
14758 813. Flue-cured tobacco referendum. June 1967. [4] p. narrow 12° (Agricultural Stabilization and Conservation Service.) †

#### Production research report.

- 14759 97. Effects of grid-bar air wash on efficiency of blot cleaners and fiber quality of cotton; [by Gino J. Maugialardi, Jr., and Oliver L. McCaskill]. [Aug. 1967.] [3]+20 p. il. 4° (Agricultural Research Service.) \* Paper, 20c. ● Item 13-C  
L.C. card Agr 67-328 A 1.84:97

Statistical bulletins. ● Item 15 A 1.34:(nos.)

- 14760 408. Fertilizer use in United States, by crops and areas, 1964 estimates, [by D. B. Ibach and J. R. Adams]. [Aug. 1967.] cover title, 384 p. il. 4° (Economic Research Service and Statistical Reporting Service.) [Text on p. 2 of cover.] \* Paper, \$1.75.  
L.C. card Agr 67-321  
14761 411. Vegetables for processing acreage, production, value by States, 1959-65 revised estimates. Aug. 1967. 56 p. 4° (Statistical Reporting Service, Crop Reporting Board.) \* Paper, 30c.  
L.C. card Agr 53-243  
14762 412. Vegetables for fresh market, acreage, production, and value, 1959-65, vegetables, melons, mint for oil, strawberries, revised estimates by seasonal groups and States. Aug. 1967. 196 p. 4° (Statistical Reporting Service, Crop Reporting Board.) \* Paper, \$1.00.  
L.C. card Agr 53-239

Technical bulletins. ● Item 16 A 1.36:(nos.)

- 14763 1349. Landscape evolution and soil formation in southwestern Iowa [with list of literature cited; by] Robert V. Ruhe, Raymond B. Daniels, and John G. Cady. June 1967. [1]+vi+242 p. il. 6 pl. in pocket. (Soil Conservation Service.) [Prepared in cooperation with Iowa Agriculture and Home Economics Experiment Station, Iowa Geological Survey. Some plates are colored.] †  
L.C. card Agr 67-325  
14764 1371. Effects of cattle grazing on ponderosa pine-bunchgrass range in Colorado [with list of literature cited; by] Dwight R. Smith. July 1967. [4]+60 p. il. (Forest Service.) [Replaces USDA circular 929, Dec. 1953.] \* Paper, 40c.  
L.C. card Agr 67-323  
14765 1374. Malnutrition of young cattle, effect on feed utilization, eventual body size, and meat quality [with list of literature cited; by] Clarence F. Winchester, R. E. Davis, and R. L. Hiner. [Aug. 1967.] [2]+26 p. il. (Agricultural Research Service.) \* Paper, 15c.  
L.C. card Agr 67-311

#### AIR FORCE DEPARTMENT, Defense Dept. Washington, D.C. 20330

AFOSR (series). (Air Force Office of Scientific Research, Office of Aerospace Research.)

- 14766 67-1247. Move the information, kind of missionary spirit [with bibliography; by] Rowena W. Swanson. June 1967. [1]+vii+192 p. il. [Prepared for presentation at 75th annual meeting, American Society for Engineering Education, Michigan State University, East Lansing, June 19-22, 1967.] [Text on p. 2 of cover.] † ● Item 422-B  
D 301.45/19-2:67-1247

Air Force manual AFM (series).

- 14767 66-1E. Depot, field and organizational maintenance: Maintenance management, [June 15, 1966]; Change, effective Sept. 1, 1967. Aug. 25, 1967. [140] p. 4° [Issued in looseleaf form.] † ● Item 421 D 301.7:66-1E/4  
14768 75-33. See Army Department, Army regulation 55-353.

✻For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 3

# GOVERNMENT PUBLICATIONS

School of Aerospace Medicine: Aeromedical reviews. (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.)

- 14769 3-67. Instructions to supplement teaching oral hygiene; [by] Timothy J. O'Leary, Claude L. Nabers. June 1967. [1] + 19 p. il. (Dental Sciences Division.) ‡ D 301.26/13-4: 3-67
- Technical report SAM-TR (series). (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.) ‡ D 301.26/13-6:(nos.)
- 14770 65-329. Sodium and water excretion and renal hemodynamics during lower body negative [with list of references; by] Charles A. Gilbert et al. Nov. 1966. cover title, 1699-1704 + [2] p. il. 4° ([Task 775502.]) [Reprinted from Journal of applied physiology, v. 21, no. 6, Nov. 1966.]
- 14771 66-201. In-vivo inactivation of factor VIII (antihemophilic globulin) by hydra-zine, its relation to fibrinolytic mechanism [with list of references; by] Jarrell E. Barrington. Jan. 1967. cover title, 5-9 + [2] p. il. 4° [Reprinted from Aerospace medicine, v. 38, no. 1, Jan. 1967.]
- 14772 66-218. Colorectal polypoid lesions [with list of references; by] Thomas F. Camp, Jr. Oct. 1966. cover title, 625-630 + [2] p. il. 4° ([Project 7755-07-003.]) [Reprinted from Archives of surgery, v. 93, Oct. 1966. Copyright 1966, by American Medical Association.]
- 14773 66-224. Effect of monomethylhydrazine on methemoglobin production in vitro and in vivo [with list of references; by] Sidney R. Portney, Dale A. Clark. Mar. 1967. cover title, 239-242 + [2] p. il. 4° ([Task 775301.]) [Reprinted from Aerospace medicine 38 (3).]
- 14774 66-264. Studies on mechanism of substrate protection of enolase and lactic dehydrogenase against ionizing radiation [with list of references; by] Jack A. Winstead, Arthur E. Gass, Jr. Feb. 1967. cover title, 208-216 + [2] p. 4° ([Project 7757.]) [Reprinted from Radiation research, v. 30, no. 2, Feb. 1967. Copyright 1967 by Academic Press, Inc.]
- 14775 66-271. Inhibition of aromatic L-amino acid decarboxylase by decarborane [with list of references; by] James H. Merritt, Thomas S. Suikowski. 1967. cover title, 369-373 + [2] p. il. 4° [From Biochemical pharmacology, 1967, v. 16.]
- 14776 66-291. Effect of -7G<sub>x</sub> acceleration on renal excretion of solutes in rabbits [with list of references; by] Lee A. Bricker et al. Jan. 1967. cover title, 35-38 + [2] p. il. 4° ([Task 793003.]) [Reprinted from Aerospace medicine, v. 38, no. 1, Jan. 1967.]
- 14777 66-296. Metabolic effects of prolonged bed rest, their modification by simulated altitude [with list of references; by] Theodore N. Lynch, et al. Jan. 1967. cover title, [1] + 11-20 + [2] p. il. 4° [Reprinted from Aerospace medicine, v. 38, no. 1, Jan. 1967.]
- 14778 66-305. Decompression sickness in high-altitude flight [with list of references; by] Willard L. Meader. Mar. 1967. cover title, 301-303 + [2] p. il. 4° [Reprinted from Aerospace medicine, v. 38, no. 3, Mar. 1967.]
- 14779 67-40. Mineral nutrient requirements of *Chlorella sorokiniana* in continuous pure culture [with list of references; by] H. Clyde Eyster. May 1967. cover title, v + 53 + [2] p. il. 4° ([Task 793001.])
- 14780 67-42. Body volume of adult men [with list of references; by] Chester L. Ward. June 1967. cover title, iii + 5 + [2] p. il. 4° ([Task 775801.])
- 14781 67-45. Incidence of ear, nose, and throat diseases in 400 space and test pilot candidates [with list of references; by] William L. Mitchell, Morgan E. Wing, Frederick G. Collins. May 1967. cover title, iii + 15 + [2] p. il. 4° ([Task 775508.])
- 14782 67-47. Allergy and sinus disease in aviators [with list of references; by] Frederick G. Collins, Morgan E. Wing. May 1967. cover title, iii + 5 + [2] p. 4° ([Project 7755, task 775508.]) [Prepared in Ear, Nose, and Throat Branch.]
- 14783 United States Air Force, Air Force Systems Command. [1967.] cover title, [24] p. il. oblong 12° [Text on p. 2-3 of cover.] ‡ D 301.45: Ai 7

## AIR TRAFFIC SERVICE, Transportation Dept. Washington, D.C. 20553

- 14784 En route air traffic control, Change 1. [July 31, 1967.] [32] p. il. 4° (7110.9, Chg. 1.) [Effective Oct. 1, 1967. Cancellation date Jan. 1, 1968. Issued in looseleaf form.] ‡ • Item 431-D-1 TD 4.308: En 1/ch.1
- 14785 Terminal air traffic control, Change 1. [July 25, 1967.] [55] p. il. 4° (7110.8 Chg. 1.) [Effective Oct. 1, 1967. Cancellation date Jan. 1, 1968. Issued in looseleaf form.] ‡ • Item 431-D-1 TD 4.309: T 27/ch.1

## AIRPORTS SERVICE, Transportation Dept. Washington, D.C. 20553

- 14786 Airport, its influence on community economy [with bibliography]; prepared by Systems Planning Division. 1967. vi + 79 p. il. oblong 12° [Text on p. 2 of cover.] ‡ • Item 982-E-1  
L.C. card 67-62435 TD 4.102.Ai 7

\*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available



**AMERICAN BATTLE MONUMENTS COMMISSION**  
Washington, D.C. 20421

- 14787 American memorials and overseas military cemeteries. 1967. [40] p. il. 4°, folded into narrow 8° size. † ● Item 1050 Y 3.Am 3: C 33/967

**ARMY DEPARTMENT, Defense Dept.**  
Washington, D.C. 20310

**AMC pamphlet. (Army Materiel Command.)**

- 14788 335-1. Reports, register of approved recurring reports, June 1967. cover title, v+188 p. 4° [Quarterly. Issued with perforations. Supersedes AMCP 335-1, Mar. 31, 1967.] † ● Item 322-A D 101.22/3: 335-1/10  
L.C. card 66-60118

**Army Materiel Command regulations AMCR (series).**

- 14789 385-224. Safety, AMC safety manual, Change 14, Apr. 14, 1967. [29] p. 16° [Issued with perforations. Supersedes Change 11, Oct. 30, 1964.] \* Paper, 15c. ● Item 323 D 101.9/2: 385-224/ch.14

**Army regulation AR (series).**

- 14790 55-353. Transportation and travel: Freight descriptions and suffixes; [Change] 1. July 17, 1967. [220] p. 4° ([Navy Dept.] NAVSUP pub 454, CH-1; [Air Force Dept.] AFM 75-33, C 1; [Marine Corps] MCO P4610.10A, Ch-1; [Defense Dept.] DSAAR 4540.1, Ch 1.) [Issued with perforations. Supersedes AR 55-353/MCO P4610.10A/DSAH 4540.1, Oct. 1963.] \* Paper, \$1.25. ● Item 323 D 101.9: 55-353/ch.1

**Cold Regions Research & Engineering Laboratory, Hanover, H.H.: CRREL report. (Army Materiel Command.)**

- 14791 12, v. 21. Bibliography on snow ice and frozen ground, with abstracts; [prepared by Frank M. Marson and others]. June 1967. vi+290 p. 4° [Includes abstracts SIP 24201-25200.] † L.C. card 53-60024 D 103.33: 12/v.21

**— Research report.**

- 14792 218. Phase composition of frozen montmorillonite-water mixtures from heat capacity measurements [with list of literature cited]; by Duwayne M. Anderson. May 1967. iv+10+[2] p. il. 4° (DA task 1V014501B52A02.) † Paper, \$3.00. D 103.33/3: 218

**Cold regions science and engineering: pt. 1, Environment. (Cold Regions Research & Engineering Laboratory, Hanover, N.H., Army Materiel Command.)**

- 14793 1-A3a. Sec. A3, Climatology: Introduction, Northern Hemisphere 1 [with selected bibliographies]; by C. Wilson. June 1967. vii+141+[2] p. il. 4° (DA project 1V025001A130.) [Errata 1 p., issued also.] † Paper, \$3.00. D 103.33/7: 1-A3a
- 14794 1-A3d. Same: Radioactive fallout in northern regions [with selected bibliography]; by C. Wilson. Feb. 1967. v+35+[2] p. il. 4° (DA project 1V025001A130.) [Errata 1 p., issued also.] † D 103.33/7: 1-A3d

**Pamphlets. ● Item 327**

D 101.22: (nos.)

- 14795 210-1. United States Army installations and major activities in continental United States. Aug. 1967. cover title, 18+[1] p. 4° [Issued with perforations. Supersedes DA pam 210-1, Sept. 1, 1966.] \* Paper, 20c. L.C. card 55-63776
- 14796 360-229. Troop topics: Barbed wire command. [July 17, 1967.] cover title, 16 p. il. 4° [Text on p. 2 and 3 of cover.] †
- 14797 608-8. Helpful hints for personnel ordered to Canal Zone, U.S. Army Forces. Southern Command. June 1967. cover title, 31 p. small 4° [Text on p. 2 of cover. Supersedes DA Pam 608-8, Sept. 30, 1964.] †
- 14798 608-15. Helpful hints for personnel ordered to 8th U.S. Army, Korea. [June 14, 1967.] cover title, vi+38 p. small 4° [Supersedes DA Pam 21-97, Jan. 4, 1960, including C1, Oct. 5, 1962.] †
- 14799 715-50-61. Procurement legal service. July 24, 1967. 8 p. 4° [Issued with perforations.] \* Paper, 5c.
- 14800 715-50-62. Same: July 24, 1967. 7 p. 4° [Issued with perforations.] \* Paper, 5c.

**Technical manual TM (series). † ● Item 329**

D 101.11: (nos.)

- 14801 10-269. General repair for canvas and webbing, Change 3. July 3, 1967. 9 p. il. 4° [Issued with perforations. Supersedes Change 2, Sept. 8, 1965.]
- 14802 10-401. Army food adviser [with list of references]. June 1967. cover title, 34 p. il. 4° [Issued with perforations. Supersedes TM 10-401, June 17, 1964.]

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

## GOVERNMENT PUBLICATIONS

### Technical manual TM (series)—Continued

- 14803 743-200. Storage and materials handling, Change 7; July 20, 1967. 1967. [21] p. il. 4° [Issued with perforations.]

### Technical research note. (Behavioral Science Research Laboratory.)

- 14804 182. Influence of screening and overlapping imagery on speed and accuracy of photo interpretation; by Norman E. Willmorth and Abraham H. Birnbaum. Apr. 1967. [8]+37 p. 4° (Support Systems Research Division; Army project 2JG20901A721, contract DA-49-092-ARO-65, interpreter techniques a-13.) \* Paper, \$3.00 (AD 654347). D 101.60:182

### USATEA report. (Army Transportation Engineering Agency, Military Traffic Management and Terminal Service, Fort Eustis, Va.)

- 14805 67-4. Engineering report: Rail impact testing on long travel shock mounts, models 230 and 570 [with selected bibliography]; prepared by C. O. Butler. July 1967. vi+176+[2] p. il. 4° † D 117.11:67-4

## ARMY MEDICAL SERVICE, Defense Dept. Washington, D.C. 20310

### Army Medical Research and Nutrition Laboratory, Fitzsimons General Hospital, Denver, Colo., laboratory reports. † D 104.17:(nos.)

- 14806 308. Energy, nitrogen, and water requirements of normal adults residing at 4300 meters for 28 days [with bibliography]; by C. Frank Consolazio [and others]. July 1967. ii+19+[8] p. il. 4° (Project 3A025601A827 military environmental medicine, task 01, work unit 070 high altitude bioenergetics.)
- 14807 309. Nutrition survey, Fort Huachuca, Ariz., Mar.-Apr. 1966 [with bibliography]; by C. Frank Consolazio [and others]. Apr. 1967. iii leaves+37+[2] p. 4° (Project 3A025601A822 military internal medicine, task 01, work unit 073 applied nutrition studies of military populations.)

## ATOMIC ENERGY COMMISSION Washington, D.C. 20545

### AEC research and development reports. Y 3.At 7:22/(letters-nos.)

- 14808 CONF-660527. Use of computers in analysis of experimental data and control of nuclear facilities, proceedings of symposium at Argonne National Laboratory, Argonne, Ill., May 4-8, 1966, sponsored by Argonne Laboratory and Atomic Energy Commission [with bibliographies; edited by Janice M. Asher]. May 1967. viii +300 p. il. ([AEC symposium series 10]; Division of Technical Information.) \* Paper, \$3.00. L.C. card 67-60057
- 14809 COO-578P28-10. Feasibility of isotopic X-ray sources for portable stress analysis equipment [with list of references]; by R. A. Semmler. Apr. 1967. cover title, viii+71 p. il. 4° (ITT Research Institute, Chicago, Ill.; [contract AT(11-1)-578, project agreement 28].) \* Paper, \$3.00.
- 14810 Telephone directory, U.S. Atomic Energy Commission, Headquarters, Germantown, Md. Aug. 1967. cover title, v+56+[2] p. il. 4° [Text on p. 2 of cover.] \* Paper, 40c. Y 3.At 7:55/967

## AVIATION MEDICINE OFFICE, Transportation Dept. Washington, D.C. 20553

### Aviation medical education series.

- 14811 5. Alcohol & flying don't mix! [1967.] [6] p. narrow large 8° † ● Item 431-E-6 TD 4.209:5

### Aviation medical report AM (series).

- 14812 67-4. Protective passenger smoke hood [with list of references; by] Ernest B. McFadden, H. I. Reynolds (G. T. Schjeldahl Company), and Gordon E. Funkhouser. Apr. 1967. [4]+7 [2] p. il. 4° \* Paper, \$3.00. TD 4.210:67-4

## BUSINESS AND DEFENSE SERVICES ADMINISTRATION, Commerce Dept., Washington, D.C. 20230

- 14813 Industry profiles, 1958-65. [1967.] xxxvi+137 p. 4° \* Paper, \$1.00. ● Item 215 C 41.2: In 2/25/958-65

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

- 14814 United States lumber exports, 1966. July 1967. 10 p. 4° (Forest Products Division.) † Paper, 10c., Commerce Department, Sales and Distribution Section, Washington, D.C. 20230.  
L.C. card 67-61472 C 41.101: 966
- 14815 United States lumber imports, 1966. July 1967. 7 p. 4° (Forest Products Division.) † Paper, 10c., Commerce Department, Sales and Distribution Section, Washington, D.C. 20230.  
L.C. card 66-60446 C 41.101/2: 966

**CENSUS BUREAU, Commerce Dept.  
Suitland, Md. 20233**

Area measurement reports GE-20 (series). [Prepared by Geography Division.]

- 14816 15. Areas of Illinois, 1960. July 1967. 27 p. 4° \* Paper, 25c. ● Item 146-B  
C 3.208/2: 15

1963 census of manufactures: [Special report] MC63 (S)-(series).

- 14817 6. Industry descriptions. [Aug. 1967.] cover title, 29 p. 4° \* Paper, 25c. ● Item  
135 C 3.24/15: 963/6

Construction reports: Building permit, C40/C42 (series).

- 14818 66-13. Housing authorized by building permits and public contracts, 1966. [1967.] cover title, [2]+360 p. ll. 4° ([Construction Statistics Division.]) [Combines two annual Construction reports previously published separately: Series C40, Housing authorized in individual permit-issuing places, and Series C42, Housing authorized in permit-issuing places, summary statistics.] \* Paper, \$1.50. ● Item 140-A (Rev.)  
L.C. card A63-7410 C 3.215/4: C 40/C 42-66-13

County business patterns CBP (series). ([Business Division.]) [Prepared in cooperation with Social Security Administration.] ● Item 133-A  
L.C. card 49-45747 C 3.204: (nos.)

- 14819 66-19. Kentucky, 1966, errata sheet. July 1967. 1 p. 4° †
- 14820 66-27. Missouri, 1966, errata sheet. July 1967. 1 p. 4° †
- 14821 66-34. New York, 1966, errata sheet. July 1967. 1 p. 4° †
- 14822 66-37. Ohio, 1966, errata sheet. July 1967. 1 p. 4° †
- 14823 66-41. Rhode Island, 1966, errata sheet. July 1967. 1 p. 4° †
- 14824 66-45. Texas, 1966. [Aug. 1967.] cover title, viii+221 p. ll. 4° \* Paper, \$1.50.

- 14825 Current industrial reports: Brassieres, corsets, and allied garments, 1966 (preliminary). July 24, 1967. 2 p. 4° (Series MA-23J(66)-1.)  
† Paper, 25c. ● Item 142-A C 3.158: MA-23J(66)-1/prelim.

- 14826 — Broadwoven fabrics, blends and mixtures, 1965. July 20, 1967. 16 p. 4° (Series M22T(65)-supplement.) † Paper, 25c. ● Item 142-A  
C 3.158: M 22T(65)/supp.-2

- 14827 — Clay construction products, summary for 1966, Change sheet. Aug. 3, 1967. 1 p. 4° (Series M32D(66)-13.) † ● Item 142-A  
C 3.158: M 32D(66)-13/ch.

- 14828 — Flour milling products, summary for 1965 and 1966. Aug. 25, 1967. 4 p. 4° (Series M20A(66)-13.) † Paper, 15c. ● Item 142-A  
C 3.158: M 20A(66)-13

- 14829 — Inventories of steel mill shapes, summary for 1966, Change sheet. Aug. 22, 1967. 1 p. 4° (Series M33-3(66)-13.) † ● Item 142-A  
C 3.158: M 33-3(66)-13/ch.

- 14830 — Nonferrous castings, summary for 1966. Aug. 22, 1967. 9 p. 4° (Series M33E(66)-11.) † Paper, 15c. ● Item 142-A  
C 3.158: M 33E(66)-11

Current population reports: Series P-25, Population estimates. \* Paper, \$5.00, (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60, and P-65 for one year), \$1.50 additional for foreign mailing; single copy prices vary. ● Item 142-C

- 14831 371. Estimates of population of standard metropolitan statistical areas, July 1, 1965, with estimates for metropolitan counties and components of population change, 1960-65. Aug. 14, 1967, cover title, ii+42 p. ll. 4° [Prepared in State and Local Population Estimates and Projections Branch, Population Division, in connection with contractual arrangement to provide data for metropolitan areas to Office of Civil Defense.] \* Paper, 15c. ● Item 142-C C 3.186: P-25/371

# GOVERNMENT PUBLICATIONS

Current population reports: Series P-65, Consumer buying indicators.  
 \* Paper, \$5.00 (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60 and P-65 for one year), \$1.50 additional for foreign mailing; single copy prices vary.

- 14832 18. Special report on household ownership and purchases of automobiles and selected household durables, 1960-67. Aug. 11, 1967. ii+24 p. 4° \* Paper, 15c. ● Item 142-C C 3.186: P-65/18

- 14833 Education of American population; by John K. Folger and Charles B. Nam. [1967.] ix+290 p. il. (1960 Census monograph.) [Prepared in cooperation with Social Science Research Council.] \* Cloth, \$2.25. ● Item 154-A (Rev.) L.C. card A66-7677 C 3.30: Ed 8

- 14834 Statistical abstract of United States, 1967 [National data book and guide to sources]. 88th annual edition. [1967.] [1]+xii+1050 p. il. [Prepared under direction of Edwin D. Goldfield, chief, Statistical Reports Division. Includes copyright material. Also issued as H. doc. 94, 90th Cong. 1st sess.] \* Cloth, \$4.00. ● Item 150 L.C. card 4-18089 C 3.134: 967

- 14835 U.S. census of population, 1960: Subject reports, final report PC(2) (series). pt. 5C. Socioeconomic status, socioeconomic measures by age, race, nativity, marital status, fertility, income, housing, etc. [1967.] xix+268 p. il. 4° \* Paper, \$1.75. ● Item 159 C 3.223/10: 960/v.2/pt.5C

- 14836 U.S. imports for consumption and general imports, TSUSA [tariff schedules of United States annotated] commodity and country, annual 1966. [Aug. 1967.] cover title, vii+521 p. 4° ([Foreign trade report] FT 246.) [Corrected through Dec. 1966 statistics.] \* Paper, \$3.00. ● Item 144 C 3.164: 246/966

United States census of agriculture, 1964: v. 1 [State and county statistics], farms, farm characteristics, livestock and products, crops, fruits, values, pt. [Prepared in Agriculture Division. [Supersedes statistics shown in preliminary reports, series AC64-Pl.]

C 3.31/4: 964/v.1/pt. (nos.)

- 14837 36. Oklahoma. [1967.] [4]+437+[25] p. il. 4° \* Paper, \$3.00. ● Item 152-A-25  
 14838 49. Alaska. [1967.] [4]+112+[25] p. il. 4° \* Paper, \$1.25. ● Item 152-A-34  
 14839 50. Hawaii. 1967. [4]+206+[25] p. il. 4° \* Paper, \$1.75. ● Item 152-A-35

## CHILDREN'S BUREAU, Health, Education, and Welfare Dept. Washington, D.C. 20201

NOTE.—The Children's Bureau has been assigned to the Social and Rehabilitation Service which was established August 15, 1967, by the Secretary of the Department of Health, Education, and Welfare in a major realignment of Federal welfare rehabilitation and social welfare service programs. The Welfare Administration was disbanded on the same date.

- 14840 Children, interdisciplinary journal for professions serving children; [Kathryn Close, editor]. [Bimonthly, with separate volume indexes. Prior to v. 14, no. 5, Sept.-Oct. 1967, issued by Children's Bureau, Welfare Administration, and classified FS 14.109: (v. nos. & nos.).] \* Paper, \$1.25 a yr., 50c additional for foreign mailing; single copy, 25c, index, 5c (1-3 yr. subs.). ● Item 449 L.C. card 56-43779 FS 17.209: (v.nos.& nos.)  
 v. 14, no. 5— Sept.-Oct. 1967—

## CIVIL AERONAUTICS BOARD Washington, D.C. 20428

- 14841 Regulations of Civil Aeronautics Board [as amended to Nov. 1, 1963, new and revised pages]; July 31, 1967. [1967.] [90] p. 4° [Includes transmittal sheet 35. Issued in looseleaf form.] \* Paper, \$6.50 (including basic book and supplementary service for an indefinite period); \$2.00 additional for foreign mailing. ● Item 186 C 31.206/7: 963/trans.35

\*For Sale by Superintendent of Documents  
 †Distribution Made by Issuing Office  
 ‡Official Use. Not Available

**CIVIL DEFENSE OFFICE (Army), Defense Dept.  
Washington, D.C. 20310**

- 14842 Federal civil defense guide: pt. G, chap. 5 (with appendices 1-21), Actions for increasing local government civil defense readiness. July 1967. [65] p. 4° [Issued in looseleaf form. Supersedes pt. G, chap. 5, dated Feb. 1965.] † ● Item 320-B-3 D 119.8/4: pt.G/chap.5 967

Handbook H (series).

- 14843 11-4. Meetings that move, to inform to stimulate, to involve, to motivate, guide to successful meetings on civil defense, seminar and workshop on community shelter planning. Aug. 1967. cover title, 19 p. ll. 4° [Issued with perforations.] † ● Item 857-0-10 D 119.8/2: 11-4

[Miscellaneous publication] MP (series). ● Item 857-D-11

D 119.11: (nos.)

- 14844 45. State civil defense directors: [prepared by Field Services Division, Plans and Operations]. Mar. 1967. [1]+11 p. 4° [Issued with perforations. Supersedes Oct. 1966 edition and Changes 1-8.] †

- 14845 49. References, Office of Civil Defense labor courses. July 1967. [1]+13 p. ll. 4° †

Student manual SM (series).

- 14846 5.6. Civil defense, U.S.A., programmed orientation to civil defense: Panel book [to accompany programmed text]. June 1967. cover title, [103] p. ll. 4° (Staff College.) [Material current as of June 1967.] † ● Item 320-B-1 D 119.8/8: 5.6

Technical report TR (series).

- 14847 20. Shelter design and analysis: v. 1, Fallout radiation shielding: [by Architectural and Engineering Development Center, Department of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass.]. July 1967. cover title, [1]+xx+[450] p. ll. 4° ([Contract OCD-PS-66-5.]) [Issued with perforations. Supersedes June 1965 edition.] † ● Item 320-B-2 D 119.9: 20/2/v.1

**CIVIL RIGHTS COMMISSION  
Washington, D.C. 20425**

- 14848 Civil rights status of Spanish-speaking Americans in Kleberg, Nueces, and San Patricio Counties, Tex.; by Texas State Advisory Committee to United States Commission on Civil Rights. July 1967. [3]+ii+32 p. 4° † ● Item 288-A CR 1.2: Sp 2

Clearinghouse publications. † ● Item 288-A CR 1.10: (nos.)

- 14849 8. Schools can be desegregated [with bibliography]. June 1967. cover title, 16 p. il. narrow 8° L.C. card 67-62448

- 14850 9. Education parks, appraisals of plans to improve educational quality and desegregate schools [articles, with bibliography]. Oct. 1967. vii+104 p. ll. L.C. card 67-62434

- 14851 Employment, administration of justice, and health services in Memphis-Shelby County, Tenn.; by Tennessee State Advisory Committee to United States Commission on Civil Rights. Aug. 1967. x+84 p. 4° † ● Item 288-A L.C. card 67-62443 CR 1.2: M 51

- 14852 Housing codes and their enforcement in 6 Connecticut cities; by Connecticut State Advisory Committee to United States Commission on Civil Rights. July 1967. iv+34 p. 4° [Includes list of footnotes.] † ● Item 288-A CR 1.2: H 81/6

- 14853 Statement before Commission on Civil Rights, by Owen B. Kiernan, Commissioner of Education, Massachusetts, Boston, Mass., Oct. 5, 1966. [1967.] 6 p. [An abbreviated text appears as Exhibit 9 on pages 352-353 of Boston hearing transcript.] † ● Item 288-A

CR 1.8: H 35/966-3/ex.9

# GOVERNMENT PUBLICATIONS

## CIVIL SERVICE COMMISSION

Washington, D.C. 20415

- 14854 Amendment 3 to announcement 388 B, equipment specialist. Aug. 29, 1967. 1 p. oblong 24° [Amends issue 178 of announcement 2279. Supersedes amendment of Nov. 22, 1966. Closing date Nov. 27, 1967.] †  
CS 1.26: 966/388B/amdt.3
- 14855 Amendment to announcement WA-08-6 (local), stenographer-typist. Sept. 5, 1967. 1 p. oblong 12° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) † CS 1.26/4: 966/WA-08-6/amdt.
- 14856 Careers in biological sciences in these fields, biology, fishery biology, microbiology, pharmacology, physiology, wildlife biology, in grades GS-5 through GS-15, announcement WA-7-36, applications continuously accepted by Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 1900 E St. N.W., Washington, D.C. 20415. Sept. 19, 1967. [2]+10 p. 4° † ● Item 292 CS 1.26/4: 967/WA-7-36
- 14857 Computer technician, computer operator, grades 5-9, apply to Interagency Board of U.S. Civil Service Examiners for Washington, D.C., announcement WA-7-24. Aug. 29, 1967. 3 p. 4° [Applications continuously accepted.] † ● Item 292 CS 1.26/4: 967/WA-7-24
- 14858 Current Federal examination announcements, AN 2279, supp. B to issue 178, July-Aug. 1967. [1967.] 1 p. oblong 24° † ● Item 292 CS 1.28: 2279/178/supp.B
- 14859 — AN 2279, supp. C to issue 178, July-Aug. 1967. [1967.] 1 p. oblong 48° † ● Item 292 CS 1.28: 2279/178/supp.C
- 14860 Directory, Interagency Boards of U.S. Civil Service Examiners. Aug. 1, 1967. [8] p. narrow 8° † ● Item 295 CS 1.2: In 8/6
- 14861 Discontinuance notice to announcement 280B, speech pathologist, audiologist, and audiologist-speech pathologist, grades GS-11 to 13 (nationwide for Veterans Administration), announcement B-4-3(63), speech pathologist, audiologist, and speech pathologist-audiologist, grades GS-7 to 13 (Washington metropolitan area, various agencies). Aug. 21, 1967. 1 p. oblong 48° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) † CS 1.26: 962/280B/notice
- 14862 Discontinuance notice to announcement 348, digital computer systems operator, grade GS-7. Aug. 28, 1967. 1 p. oblong 48° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) [Amends issue no. 178 of announcement 2279.] † CS 1.26: 964/348/notice
- 14863 Discontinuance notice [to] announcement 374 B, illustrator (grades GS-5 through GS-12). Aug. 28, 1967. 1 p. oblong 48° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) † CS 1.26: 965/374B/notice
- 14864 Illustrator in establishments of U.S. Government, grades GS-5 [through] GS-12, applications continuously accepted for positions in Washington, D.C. area, announcement WA-7-35. Aug. 29, 1967. 4 p. † ● Item 292 CS 1.26/4: 967/WA-7-35
- 14865 Improving service to the public, agency action programs, summary 2. June 1967. cover title, 87 p. il. 4° † ● Item 295 CS 1.2: Se 6/sum.2
- 14866 Local and regional civil service examinations offering best job opportunities, AN 2280 [issue 127], Sept.-Oct. 1967. [1967.] [2] p. oblong f°, folded into narrow 8° size. † ● Item 292 CS 1.28: 2280/127
- 14867 Maritime safety specialist, \$7,696-\$9,221 a year, (grades 9 and 11), announcement WA-7-25, apply to Interagency Board of U.S. Civil Service Examiners for Washington, D.C. 1900 E Street, D.C., 20415. Aug. 29, 1967. 4 p. 4° [Closing date Oct. 5, 1967.] † ● Item 292 CS 1.26/4: 967/WA-7-25

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14868 Mediator grades GS-11 and GS-12, \$9,221 and \$10,927 a year with National Mediation Board in Washington, D.C., apply to Interagency Board of Civil Service Examiners for Washington, D.C., 1900 E. Street, NW., Washington, D.C. 20415, announcement WA-7-28, Aug. 29, 1967. 4 p. 4° [Closing date Oct. 5, 1967.] † ● Item 292 CS 1.26/4: 967/WA-7-28

Pamphlets. ● Item 299

CS 1.48: (nos.)

- 14869 4. Working for U.S.A., applying for civil service job, what the Government expects of Federal workers. May 1967. 32 p. il. narrow 8° \* Paper, 15c.  
14870 18. Your retirement system, questions and answers concerning Federal civil service retirement law. Jan. 1967. cover title, 46 p. [Text on p. 2 of cover.] \* Paper, 20c.  
L.C. card 44-41327

Personnel management series.

- 14871 18. Recognizing and supervising troubled employees, guide for supervisors and others who counsel troubled employees; [prepared by Bureau of Policies and Standards, with assistance of Bureau of Retirement and Insurance and Bureau of Training]. July 1967. vii+15 p. \* Paper, 15c. ● Item 300-A CS 1.54: 18

### CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION, Commerce Dept., Springfield, Va. 22151

- 14872 Water for peace, representative list of R & D reports available from Clearinghouse. May 1967, reprinted as amended, Aug. 1967. [1]+ii+17 p. il. 4° † CS 51.11: W 29/rep.

### COAST AND GEODETIC SURVEY, Commerce Dept. Washington, D.C. 20230

Publication.

- 14873 60-4. Geodetic operations in United States and in other areas through international cooperation, Jan. 1, 1963-Dec. 31, 1966, report to International Association of Geodesy of International Union of Geodesy and Geophysics, International Council of Scientific Unions; [by] John O. Phillips. 1967. vi+34 p. il. 4° \* Paper, 30c. ● Item 193  
L.C. card 27-26813 C 4.19/2: 60-4
- 14874 Tidal current charts, Charleston Harbor, S.C. 1st edition. [1967.] cover title, [1] p., 25 p. of maps, large 4° [Text on p. 2 of cover.] † Paper, 50c. C 4.29: C 38/967
- 14875 Tide tables, high and low water predictions, central and western Pacific Ocean and Indian Ocean, 1968. [1967.] 386 p. [Index map of tide table coverage on p. 2 of cover. Includes list of publications relating to tides and tidal currents.] † Paper, \$2.00. ● Item 196  
L.C. card 7-35369 C 4.15/6: 968

### COAST GUARD, Transportation Dept. Washington, D.C. 20591

- 14876 [Enlisted ratings qualifications manual, effective Sept. 1, 1967.] [Revised edition.] [1967.] [478] p. il. 4° (CG-311.) [Issued in looseleaf form. Accompanied by letter of promulgation, 1 p., dated May 10, 1967. Supersedes 1960 edition.] † ● Item 934-A TD 5.8: En 5
- 14877 Light list: v. 1. Atlantic Coast of United States, from St. Croix River, Maine to Little River, S.C. 1st, 3d and 5th Coast Guard districts, June 3, 1967 (including N.M. no. 22 of 1967). 1967. xxiv+480+20 p. il. map, 4° [Publication contains list of lights, fog signals, buoys, daybeacons, lightships, radiobeacons, and loran stations. Edge index and how to use on page 4 of cover. Some illustrations are colored. Another map on p. 2 of cover.] \* Paper, \$3.25. ● Item 936  
L.C. card 44-6703 TD 5.9: v.1/967
- 14878 U.S. Coast Guard Reserve INACDUTRA afloat training guide. 1967. cover title, [56] p. 4° (CG-363-2.) [Issued in looseleaf form.] † ● Item 934-A TD 5.8: T 68

☐For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

- 14879 United States Coast Guard Academy, New London, Conn., catalogue of courses 1967-68. [1967.] cover title, [1]+100 p. il. [Text on p. 2 of cover.]  
 † ● Item 930-B TB 5.16: 967-68

## COMMERCE DEPARTMENT Washington, D.C. 20230

NOTE.—Requests to the Commerce Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- Overseas business reports OBR (series). [Issued irregularly.] \* Paper, \$13.00 a yr., \$5.00 additional for foreign mailing; single copy, 15c. (1-3 yr. subs.). ● Item 231-B C 1.50:(nos.)
- 14880 67-41. Market profiles for Africa; prepared in Africa Division, Office of International Regional Economics. July 1967. 50 p. il. 4° (International Commerce Bureau.) [Supersedes OBR 66-36.]
- 14881 67-43. United States foreign trade 1960-66 (annual); [prepared in International Trade Analysis Division]. Aug. 1967. 26 p. il. 4° (Bureau of International Commerce.) [Issued with perforations.]
- 14882 67-50. Basic data on economy of Mexico [with bibliography]; prepared by Paul S. Flores. Aug. 1967. 31 p. il. 4° (International Commerce Bureau.) [Supersedes OBR 64-13.]

## CONGRESS

- 14883 Congressional record, proceedings and debates of 89th Congress, 2d session, v. 112, pt. 4, Feb. 28-Mar. 9, 1966. [Permanent edition.] 1966. [1]+4181-5494 p. 4° \* Cloth, \$4.00. ● Item 993  
 L.C. card 12-36438 X 89/2: 112/pt.4

NOTE.—In the permanent bound edition, the paging differs from that of the daily numbers, the text being revised, rearranged, and printed without break. Extraneous matter appearing in the Appendix is omitted from the permanent form of the Congressional record.

## Laws

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

Private laws, 90th Congress. † House or Senate Document Rooms, Capitol.

- 14884 65. H.R. 1566, act to provide for free entry of 4 octave carillon for use of Northfield and Mount Hermon Schools, East Northfield, Mass. Approved Aug. 11, 1967. 1 p.
- 14885 66. H.R. 1886, act to provide for free entry of certain articles for use of Princeton University, Princeton, N.J. Approved Aug. 11, 1967. 1 p.
- 14886 67. H.R. 3029, act to provide for free entry of one ship model for use of Lutheran Church of the Covenant, Maple Heights, Ohio. Approved Aug. 11, 1967. 1 p.
- 14887 68. H.R. 3737, act to provide for free entry of carillon for use of University of California at Riverside. Approved Aug. 11, 1967. 1 p.
- 14888 69. H.R. 4934, act to provide for free entry of one mass spectrometer for use of Indiana University. Approved Aug. 11, 1967. 1 p.
- 14889 70. H.R. 4977, act to provide for free entry of triaxial apparatus and rheognoniometer for use of Northwestern University. Approved Aug. 11, 1967. 1 p.
- 14890 71. H.R. 8485, act for relief of Eddie Garman. Approved Aug. 13, 1967. 1 p.
- 14891 72. H.R. 4833, act to provide for conveyance of certain real property of United States situated in Pennsylvania. Approved Aug. 21, 1967. 1 p.
- 14892 73. H.R. 7043, act to authorize and direct Secretary of Department under which Coast Guard is operating to cause vessel Northwind, owned by Wallace P. Smith, jr., of Centreville, Md. to be documented as vessel of United States with coastwise privileges. Approved Aug. 21, 1967. 1 p.
- 14893 74. S. 95, act for relief of Rey D. Baldwin. Approved Aug. 21, 1967. 1 p.
- 14894 75. S. 650, act for relief of Anthony J. Corso. Approved Aug. 21, 1967. 1 p.
- 14895 76. H.R. 1619, act for relief of Rene Hugo Helmann. Approved Aug. 25, 1967. 1 p.
- 14896 77. H.R. 2036, act for relief of Carols Rogello Flores-Vasquez. Approved Aug. 25, 1967. 1 p.
- 14897 78. H.R. 2668, act for relief of Sevasti Diakides. Approved Aug. 25, 1967. 1 p.
- 14898 79. H.R. 3195, act for relief of Eli Elenora Bianchi. Approved Aug. 25, 1967. 1 p.
- 14899 80. H.R. 3881, act for relief of Christina Hatzisavvas. Approved Aug. 25, 1967. 1 p.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 14900 81. H.R. 7516, act for relief of Song Sin Taik and Song Kyung Ho. Approved Aug. 25, 1967. 1 p.
- 14901 82. H.R. 2470, act to provide for free entry of certain scientific instruments and apparatus for use of Tufts University, Mount Holyoke College and Massachusetts Division of American Cancer Society. Approved Aug. 28, 1967. 1 p.
- 14902 83. H.R. 4809, act for relief of Mrs. Willfred S. Shirley. Approved Aug. 29, 1967. 1 p.
- 14903 84. H.R. 5967, act for relief of Albert P. Morell. Approved Aug. 29, 1967. 1 p.
- 14904 85. H.R. 6452, act for relief of John E. Coplin. Approved Aug. 29, 1967. 1 p.
- 14905 86. H.R. 3717, act for relief of Mrs. M. M. Richwine. Approved Sept. 11, 1967. 1 p.

## Public laws, 90th Congress. ● Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C. 20402, at a subscription price of \$12.00 per session, \$2.00 additional for foreign mailing; single copies vary in price.

- 14906 62. S. 1648, act to extend authority for exemptions from antitrust laws to assist in safeguarding balance-of-payments position of United States. Approved Aug. 9, 1967. 1 p. \* Paper, 5c.
- 14907 63. H.R. 2532, act to provide for disposition of funds appropriated to pay judgment in favor of Ottawa Tribe of Oklahoma in docket numbered 303 of Indian Claims Commission, and for other purposes. Approved Aug. 11, 1967. 1 p. \* Paper, 5c.
- 14908 64. H.R. 3631, act to provide for dedication of certain streets on Agua Caliente Indian Reservation and to convey title to certain platted streets, alleys, and strips of land. Approved Aug. 11, 1967. 1 p. \* Paper, 5c.
- 14909 65. H.R. 743, act to amend Act of Sept. 26, 1950, authorizing Sacramento Valley irrigation canals, Central Valley project, Calif., in order to increase capacity of certain project features for future irrigation of additional lands. Approved Aug. 19, 1967. 1 p. \* Paper, 5c.
- 14910 66. S. 1762, act to amend sec. 810 of Housing act of 1964 to extend for 3 years fellowship program authorized by such section. Approved Aug. 19, 1967. 1 p. \* Paper, 5c.
- 14911 67. S. 1296, act to authorize appropriations to National Aeronautics and Space Administration for research and development, construction of facilities, and administrative operations, and for other purposes. [Approved Aug. 21, 1967.] 4 p. \* Paper, 5c.
- 14912 68. H.R. 4496, act for relief of village of Brooklyn Center, Minn. Approved Aug. 21, 1967. 1 p. \* Paper, 5c.
- 14913 69. S. 1282, act to authorize appropriation of funds to carry out activities of Federal Field Committee for Development Planning in Alaska. Approved Aug. 21, 1967. 1 p. \* Paper, 5c.
- 14914 70. S.J. Res. 10, joint resolution to establish Golden Spike Centennial Celebration Commission. [Approved Aug. 21, 1967.] 2 p. \* Paper, 5c.
- 14915 71. S. 1701, act to declare that United States holds in trust for Indians of Battle Mountain Colony certain lands which are used for cemetery purposes. Approved Aug. 21, 1967. 1 p. \* Paper, 5c.

DEFENSE PRODUCTION JOINT COMMITTEE  
Washington, D.C. 20510

- 14916 Defense production act progress report no. 47, hearing, 90th Congress, 1st session, on mobilization programs of Department of Interior, June 19, 1967. 1967. vi+113 p. il. † ● Item 999-A  
L.C. card 51-60400 Y 4.D 36: P 94/no.47

ECONOMIC JOINT COMMITTEE  
Washington, D.C. 20510

- 14917 Coordination and integration of Government statistical programs, hearings before Subcommittee on Economic Statistics, 90th Congress, 1st session, May 17-June 8, 1967. 1967. iv+206 p. il. \* Paper, 55c. ● Item 1000  
L.C. card 67-62162 Y 4.Ec 7: St 2/4
- 14918 — report of Subcommittee on Economic Statistics. 1967. v+10 p. (Joint committee print, 90th Congress, 1st session.) \* Paper, 10c. ● Item 1000  
L.C. card 67-62317 Y 4.Ec 7: St 2/5
- 14919 Directory of urban research study centers, materials prepared by [Brenda Ratcliffe] committee staff, for Subcommittee on Urban Affairs; Aug. 1967. 1967. x+77 p. (Joint committee print, 90th Congress, 1st session.) \* Paper, 25c. ● Item 1000  
L.C. card 67-62442 Y 4.Ec 7: Ur 1

# GOVERNMENT PUBLICATIONS

- 14920 Economic education, hearings before Subcommittee on Economic Progress, 90th Congress, 1st session, pursuant to S. Res. 316, 89th Cong., 2d sess.  
 ● Item 1000  
 L.C. card 67-62279 Y 4.Ec 7: Ed 8/3/v. (nos.)  
 v. 1. Apr. 14-21, 1967. 1967. iii+1-107 p. \* Paper, 30c.  
 v. 2. Related materials. 1967. iv+109-251 p. il. \* Paper, 40c.
- 14921 Urban America, goals and problems, materials compiled and prepared for Subcommittee on Urban Affairs [articles, edited by Richard F. Kaufman]; Aug. 1967. 1967. v+303 p. (Joint committee print, 90th Congress, 1st session.) \* Paper, 75c.  
 L.C. card 67-62444 Y 4.Ec 7: Ur 1/2

## HOUSE OF REPRESENTATIVES Washington, D.C. 20515

### House documents

NOTE.—All House documents, entries for which are followed by a †, may be obtained from the House Document Room or from the issuing office.

#### House documents, 90th Congress.

- 14922 37. Judicial Conference of United States, letter from Chief Justice, Supreme Court of United States, transmitting report of proceedings of annual meeting, held in Washington, D.C., Sept. 22-23, 1966; Jan. 10, 1967. 1967. [3] +vi+29-70 p. [Also issued in departmental edition and sent to depositories in that form. See Entry no. 14730.] †
- 14923 94. Statistical abstract of United States, 1967 [National data book and guide to sources]. 88th annual edition. [1967.] [1]+xii+1050 p. il. [Prepared under direction of Edwin D. Goldfield, chief, Statistical Reports Division. Includes copyright material.] \* (Available in departmental edition, cloth, \$4.00, C 3.134:967, and sent to depositories in that form. See Entry no. 14834.)
- 14924 141. Audit report of Federal home loan banks, year ended Dec. 31, 1966, letter from Comptroller General transmitting report; July 12, 1967. 1967. vii+15 p. 4° † ● Item 996  
 L.C. card 66-60576
- 14925 146. Audit of Federal Deposit Insurance Corporation, year ended June 30, 1966 (limited by Agency restrictions on access to bank examination records), letter from Comptroller General transmitting [report]; July 19, 1967. 1967. vii+24 p. 4° † ● Item 996  
 L.C. card 46-26866
- 14926 148. Sweetwater River, San Diego County, Calif., letter from chief of engineers, Army, submitting report; July 24, 1967. 1967. xxxiv+116 p. il. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 15228.] †
- 14927 149. Audit of Virgin Islands Corporation, fiscal year 1966, letter from Comptroller General transmitting report; July 27, 1967. 1967. v+20 p. 4° † ● Item 996  
 L.C. card 46-26603
- 14928 153. Report of proceedings of Judicial Conference of United States, letter from Chief Justice, Supreme Court of United States, transmitting report of special meeting, held Washington, D.C., Mar. 30-31, 1967; Aug. 8, 1967. 1967. [3]+vi+51 p. [Also issued in departmental edition and sent to depositories in that form. See Entry no. 14731.] †
- 14929 154. 3d annual report of Atlantic-Pacific Interocceanic Canal Study Commission; July 31, 1967. [1967.] vi+[71] p. il. † ● 996  
 L.C. card 65-62676
- 14930 155. Atchafalaya River and Bayous Chene, Boeuf, and Black, La., letter from chief of engineers, Army, submitting report on review of reports; Aug. 10, 1967. 1967. xli+76 p. il. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 15224.] †

### House reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on private bills, 90th Congress. † House Document Room, Capitol. ● Item 1008-B

- 14931 520. Elpidio [Dimacall Damazo] and Natividad [Simuangco] Damazo. Report from Committee on Judiciary to accompany H.R. 3727. July 31, 1967. 5 p.

House reports on public bills, 90th Congress. † House Document Room, Capitol. (No. 544 is sold by Superintendent of Documents.) ● Item 1008-A

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 14932 519. Declaring that United States holds in trust for Indians of Battie Mountain Colony certain lands which are used for cemetery purposes. Report from Committee on Interior and Insular Affairs to accompany H.R. 9761. July 31, 1967. 5 p.
- 14933 521. Commission on Obscenity and Pornography. Report from Committee on Education and Labor to accompany H.R. 10347. July 31, 1967. 8 p.
- 14934 522. Amending Organic act of National Bureau of Standards to authorize fire research and safety program, to establish National Commission on Fire Prevention and Control, and for other purposes. Report from Committee on Science and Astronautics to accompany H.R. 11284. July 31, 1967. 22 p.
- 14935 523. Authorizing Secretary of Interior to construct, operate, and maintain San Felipe division, Central Valley project, Calif., and for other purposes. Report from Committee on Interior and Insular Affairs to accompany H.R. 43. Aug. 1, 1967. 11 p.
- 14936 524. Authorizing disposal of molybdenum from national stockpile. Report from Committee on Armed Services to accompany H.R. 5784. Aug. 1, 1967. 6 p.
- 14937 525. Authorizing disposal of rare-earth materials from national stockpile and supplemental stockpile. Report from Committee on Armed Services to accompany H.R. 5787. Aug. 1, 1967. 5 p.
- 14938 526. Authorizing disposal of bismuth from national stockpile and supplemental stockpile. Report from Committee on Armed Services to accompany H.R. 5788. Aug. 1, 1967. 6 p.
- 14939 527. Retirement in highest grade satisfactorily held in any armed force. Report from Committee on Armed Services to accompany H.R. 839. Aug. 1, 1967. 10 p.
- 14940 529. Modifying recoupment requirements on military disability severance pay. Report from Committee on Armed Services to accompany H.R. 5645. Aug. 1, 1967. 7 p.
- 14941 530. Amending Dependents medical care act. Report from Committee on Armed Services to accompany H.R. 8009. Aug. 1, 1967. 8 p.
- 14942 531. Amending title 37, United States Code. Report from Committee on Armed Services to accompany H.R. 8375. Aug. 1, 1967. 17 p.
- 14943 532. Providing improved promotion system for medical and dental officers of Armed Forces. Report from Committee on Armed Services to accompany H.R. 10242. Aug. 1, 1967. 17 p.
- 14944 533. Increasing statutory ceiling on authorized number of Marine Corps Reserve general officers. Report from Committee on Armed Services to accompany H.R. 11144. Aug. 1, 1967. 6 p.
- 14945 534. Additional appropriation authority for city planning and urban studies fellowship program. Report from Committee on Banking and Currency to accompany S. 1762. Aug. 2, 1967. 3 p.
- 14946 535. NASA authorization for fiscal year 1968. Conference report to accompany S. 1296. Aug. 3, 1967. 10 p.
- 14947 536. Department of Justice's handling of Veterans' Administration mortgage foreclosures. 2d report by Committee on Government Operations; Aug. 3, 1967. 1967. v+24 p.
- 14948 539. Transfer of peanut acreage allotments. Report from Committee on Agriculture to accompany H.R. 11565. Aug. 7, 1967. 10 p.
- 14949 540. District of Columbia reorganization. Report together with minority and separate views from Committee on District of Columbia to accompany H.R. 12065. Aug. 7, 1967. 47 p.  
L.C. card 67-62419
- 14950 541. Providing for disposition of funds appropriated to pay judgments in favor of Sac and Fox Indians and for other purposes. Report from Committee on Interior and Insular Affairs to accompany H.R. 10566. Aug. 7, 1967. 4 p.
- 14951 542. Consideration of H.R. 2516. Report from Committee on Rules to accompany H. Res. 856. Aug. 7, 1967. 1 p.
- 14952 543. Amending college work-study program in title 1 of Economic opportunity act of 1964. Report from Committee on Education and Labor to accompany H.R. 11945. Aug. 7, 1967. 5 p. [Includes individual views.]
- 14953 544. Social security amendments of 1967. Report of Committee on Ways and Means on H.R. 12080. Aug. 7, 1967. 1967. ix+201 p. [Includes supplemental views.] \* Paper, 55c.
- 14954 545. Consideration of H.R. 43. Report from Committee on Rules to accompany H. Res. 860. Aug. 8, 1967. 1 p.
- 14955 546. Consideration of H.R. 845. Report from Committee on Rules to accompany H. Res. 861. Aug. 8, 1967. 1 p.
- 14956 547. Consideration of H.R. 6279. Report from Committee on Rules to accompany H. Res. 862. Aug. 8, 1967. 1 p.
- 14957 548. Appalachian regional development act amendments of 1967, and amendments to Public works and economic development act of 1965. Report of Committee on Public Works, with additional, minority, supplemental, and separate views, on S. 602; Aug. 8, 1967. 1967. [1]+98 p. II.
- 14958 549. Disposition of sundry papers. Report from Joint Committee on Disposition of Executive Papers. Aug. 9, 1967. 2 p.
- 14959 550. Consideration of H.R. 11945. Report from Committee on Rules to accompany H. Res. 867. Aug. 9, 1967. 1 p.
- 14960 551. Foreign assistance act of 1967. Report of Committee on Foreign Affairs together with minority views and additional views on H.R. 12048, to amend further Foreign assistance act of 1961, as amended, and for other purposes; Aug. 11, 1967. 1967. v+137 p.
- 14961 552. Small business act amendments of 1967. Report together with supplemental views from Committee on Banking and Currency to accompany H.R. 10409. Aug. 14, 1967. 22 p.

# GOVERNMENT PUBLICATIONS

## House reports on public bills—Continued

- 14962 553. Authorizing Secretary of Interior to acquire Appomattox Manor for addition to Petersburg National Battlefield in Virginia and providing for revision of boundaries of battlefield. Report from Committee on Interior and Insular Affairs to accompany H.R. 182. Aug. 14, 1967. 6 p.
- 14963 554. Veterans' pension and readjustment assistance act of 1967. Conference report to accompany S. 16. Aug. 14, 1967. 36 p.
- 14964 555. Consideration of H.R. 12080. Report from Committee on Rules to accompany H. Res. 902. Aug. 15, 1967. 1 p.
- 14965 556. To amend act of Oct. 3, 1965. Report from Committee on Judiciary to accompany H.R. 11993. Aug. 15, 1967. 4 p.
- 14966 557. Increasing amount of real and personal property which may be held by American Academy in Rome. Report from Committee on House Administration to accompany S. 281. Aug. 16, 1967. 3 p.
- 14967 558. Relating to Tiwa Indians of Texas. Report from Committee on Interior and Insular Affairs to accompany H.R. 10599. Aug. 16, 1967. 4 p.
- 14968 559. Amending legislative branch appropriation act 1959, as it relates to transportation expenses of Members of House of Representatives, and for other purposes. Report together with separate views from Committee on House Administration to accompany H.R. 9837. Aug. 17, 1967. 3 p.
- 14969 560. Amending joint resolution of Mar. 25, 1953, relating to electrical and mechanical office equipment for use of Members, officers, and committees of House of Representatives, to remove specific limitations on electric typewriters furnished to Members. Report from Committee on House Administration to accompany H.J. Res. 516. Aug. 17, 1967. 2 p.
- 14970 561. Amending act of Sept. 19, 1964 (78 Stat. 983), establishing Public Land Law Review Commission. Report from Committee on Interior and Insular Affairs to accompany H.R. 12121. Aug. 17, 1967. 14 p.
- 14971 562. Mental retardation amendments of 1967. Report from Committee on Interstate and Foreign Commerce to accompany H.R. 6430. Aug. 17, 1967. 34 p. li.
- 14972 563. Vocational rehabilitation amendments of 1967. Report from Committee on Education and Labor to accompany H.R. 12257. Aug. 17, 1967. 16 p.
- 14973 564. Consideration of H.R. 12048. Report from Committee on Rules to accompany H. Res. 909. Aug. 17, 1967. 1 p.
- 14974 565. Consideration of S. 602. Report from Committee on Rules to accompany H. Res. 910. Aug. 17, 1967. 1 p.
- 14975 566. Amending sec. 1730 of title 18, United States Code, to permit uniform or badge of letter-carrier branch of postal service to be worn in theatrical, television, or motion-picture productions under certain circumstances. Report from Committee on Judiciary to accompany H.R. 10773. Aug. 17, 1967. 4 p.
- 14976 567. Providing certain benefits for law enforcement officers not employed by United States who are killed or injured while apprehending violators of Federal law. Report from Committee on Judiciary to accompany H.R. 11816. Aug. 17, 1967. 14 p.
- 14977 568. San Rafael Wilderness, Los Padres National Forest, Calif. Report together with individual views from Committee on Interior and Insular Affairs to accompany H.R. 5161. Aug. 17, 1967. 8 p.
- 14978 569. National Aeronautics and Space Administration appropriation bill, 1968. Report from Committee on Appropriations to accompany H.R. 12474. Aug. 18, 1967. 6 p.
- 14979 571. Providing for further expenses of investigation and study authorized by House resolution 124. Report from Committee on House Administration to accompany H. Res. 842. Aug. 21, 1967. 1 p.
- 14980 572. Public broadcasting act of 1967. Report from Committee on Interstate and Foreign Commerce to accompany H.R. 6736. Aug. 21, 1967. 63 p. li. [Includes separate, minority, and additional views.]
- 14981 574. Extension of dairy indemnity payments authority. Report from Committee on Agriculture to accompany S. 1657. Aug. 22, 1967. 4 p.
- 14982 576. Consideration of H.R. 10409. Report from Committee on Rules to accompany H. Res. 913. Aug. 22, 1967. 1 p.
- 14983 577. Authorizing Committee on Judiciary to conduct studies and investigations relating to certain matters within its jurisdiction. Report from Committee on Rules to accompany H. Res. 838. Aug. 22, 1967. 1 p.
- 14984 578. Intergovernmental Committee for European migration (ICEM). Report of Committee on Judiciary pursuant to H. Res. 40. 1967. iii+50 p.
- 14985 593. Saugus Iron Works National Historic Site, Mass. Report from Committee on Interior and Insular Affairs to accompany H.R. 1308. Aug. 23, 1967. 6 p.
- 14986 594. To save America's small lakes (water pollution control and abatement). 3d report by Committee on Government Operations; Aug. 23, 1967. 1967. v+20 p.
- 14987 595. Appropriations for Department of Defense for 1968. Conference report to accompany H.R. 10738. Aug. 23, 1967. 8 p.
- 14988 596. Continuing appropriations, 1968. Report from Committee on Appropriations to accompany H.J. Res. 804. Aug. 24, 1967. 9 p.
- 14989 597. Relationship of toll facilities to Federal-aid highway program. Report of Special Subcommittee on Federal-Aid Highway Program and Subcommittee on Roads, 90th Congress, 1st session; Aug. 24, 1967. 1967. ix+183 p. li. L.C. card 67-62421

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# OCTOBER 1967

- 14990 603. Providing for appeal by United States from decisions sustaining motions to suppress evidence. Report from Committee on Judiciary to accompany H.R. 8654. Aug. 24, 1967. 5 p.
- 14991 604. Amend D.C. teachers' leave act. Report from Committee on District of Columbia to accompany H.R. 5709. Aug. 25, 1967. 4 p.
- 14992 605. Amend D.C. teachers' retirement act. Report from Committee on District of Columbia to accompany H.R. 12505. Aug. 25, 1967. 26 p.
- 14993 606. Amend D.C. alcoholic beverage control act. Report from Committee on District of Columbia to accompany H.R. 8715. Aug. 25, 1967. 4 p.
- 14994 607. Amend D.C. alcoholic beverage control act. Report from Committee on District of Columbia to accompany H.R. 6727. Aug. 25, 1967. 6 p.
- 14995 608. Dulles-Potomac Interceptor sewer. Report from Committee on District of Columbia to accompany H.R. 8965. Aug. 25, 1967. 11 p.
- 14996 609. Illicit practices affecting U.S. economic program in Vietnam (followup investigation). 4th report by Committee on Government Operations; Aug. 25, 1967. 1967. v+20 p.
- 14997 610. Commercial (commodity) import program for Vietnam (followup investigation). 5th report by Committee on Government Operations; Aug. 25, 1967. 1967. v+16 p.
- 14998 611. Port situation in Vietnam (followup investigation). 6th report from Committee on Government Operations; Aug. 25, 1967. 1967. v+7 p.
- 14999 612. Registration of historic landmarks in District of Columbia. Report from Committee on District of Columbia to accompany H.R. 10939. Aug. 25, 1967. 18 p.
- 15000 613. Government use of satellite communications, 1967. 7th report by Committee on Government Operations; Aug. 28, 1967. 1967. v+14 p.
- 15001 614. Federal research and development programs, decisionmaking process, comments by National Academy of Sciences and Bureau of Budget. 8th report by Committee on Government Operations; Aug. 28, 1967. 1967. v+17 p. [Includes additional views of Fletcher Thompson.]
- 15002 615. Authorizing Secretary of Interior to grant long-term leases with respect to lands in El Portal administrative site adjacent to Yosemite National Park, Calif., and for other purposes. Report from Committee on Interior and Insular Affairs to accompany H.R. 4739. Aug. 28, 1967. 4 p.
- 15003 616. Amending Public law 87-752 (76 Stat. 749) to eliminate requirement of reservation of certain mineral rights to United States. Report from Committee on Interior and Insular Affairs to accompany H.R. 5091. Aug. 28, 1967. 7 p.
- 15004 617. Increasing appropriation authorization for continuing work in Missouri River Basin by Secretary of Interior. Report from Committee on Interior and Insular Affairs to accompany H.R. 8775. Aug. 28, 1967. 10 p.
- 15005 622. Providing for establishment of Florissant Fossil Beds National Monument in Colorado. Report from Committee on Interior and Insular Affairs to accompany H.R. 5805. Aug. 30, 1967. 6 p.  
L.C. card 67-62422
- 15006 623. Establishing National Park Foundation. Report from Committee on Interior and Insular Affairs to accompany H.R. 10835. Aug. 30, 1967. 9 p.
- 15007 624. Providing for disposition of judgment funds now on deposit to credit of Cheyenne-Arapaho Tribes of Oklahoma. Report from Committee on Interior and Insular Affairs to accompany H.R. 11847. Aug. 30, 1967. 4 p.
- 15008 625. Fishermen's protective act of 1967. Report from Committee on Merchant Marine and Fisheries to accompany H.R. 4451. Aug. 31, 1967. 26 p.
- 15009 627. Creating independent Federal Maritime Administration. Report together with dissenting views from Committee on Merchant Marine and Fisheries to accompany H.R. 159. Aug. 31, 1967. 18 p.  
L.C. card 67-62420

## *Agriculture Committee, House Washington, D.C. 20515*

[Committee hearings] serial, 90th Congress. † ● Item 1010

- 15010 J. Management policy and other problems of national forests, hearings before Subcommittee on Forests, 90th Congress, 1st session, on H.R. 740 [and other bills].  
pt. 2. June 13-16, 1967. 1967. v+164 p.  
Y 4 Ag 8/1 : F 76/41/pt.2
- 15011 N. Amend Meat inspection act, hearings before Subcommittee on Livestock and Grains, 90th Congress, 1st session, on H.R. 1314, H.R. 1321, and H.R. 6168, June 26-July 20, 1967. 1967. iv+251 p.  
L.C. card 67-62176  
Y 4 Ag 8/1 : M 46/14
- 15012 P. Reduction of extra-long staple cotton quota, hearings, 90th Congress, 1st session on H.R. 10915, July 12 and 13, 1967. 1967. iii+74 p.  
L.C. card 67-62290  
Y 4 Ag 8/1 : C 82/49
- 15013 Q. Operations of Flue-Cured Tobacco Cooperative Stabilization Corporation, hearing before Subcommittee on Tobacco, 90th Congress, 1st session, July 11 and 26, 1967. 1967. iii+61 p.  
L.C. card 67-62351  
Y 4 Ag 8/1 : T 55/33

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## *Appropriations Committee, House* Washington, D.C. 20515

- 15014 Foreign assistance and related agencies appropriations for 1968, hearings before subcommittee, 90th Congress, 1st session.  
L.C. card 67-62403 Y 4.Ap 6/1: F 76/3/968/pt.1  
pt. 1. Military assistance, related agencies, Asian Development Bank, Cuban refugees, Export-Import Bank, Inter-American Development Bank, International Development Association, migration and refugee assistance, Peace Corps, Ryukyu Islands. 1967. ii+1-791+xiv p. il. † ● Item 1011
- 15015 Internal Revenue Service, hearings before subcommittee, 90th Congress, 1st session, charges of abuses by Internal Revenue Service agents. 1967. ii+65 p. † ● Item 1011  
L.C. card 67-62183 Y 4.Ap6/1: In 8/8
- 15016 Military construction appropriations for 1968, hearings before subcommittee, 90th Congress, 1st session. † ● Item 1011  
L.C. card 67-62300 Y 4.Ap6/1: M 59/6/968/pt. (nos.)  
pt. 1. Office of Secretary of Defense, family housing, defense agencies, National Security Agency. 1967. ii+1-479+vi p. il.  
pt. 2. Department of Navy. 1967. ii+763+viii p. il.
- 15017 National Aeronautics and Space Administration appropriations for 1968, additional hearings before subcommittee, 90th Congress, 1st session. 1967. ii+59+i p. † ● Item 1011  
L.C. card 67-62181 Y 4.Ap6/1: N 21/5/968

## *Banking and Currency Committee, House* Washington, D.C. 20515

- 15018 Control of commercial banks and interlocks among financial institutions, staff report for Subcommittee on Domestic Finance, 90th Congress, 1st session; July 31, 1967. 1967. vi+96 p. (Subcommittee print.) † (Limited distribution).  
L.C. card 67-62313 Y 4.B22/1: B 22/15
- 15019 Federal charter legislation for mutual savings banks, 1967, hearings before Subcommittee on Bank Supervision and Insurance, 90th Congress, 1st session, on H.R. 15, H.R. 10745, H.R. 11139, July 13-20, 1967. 1967. v+765 p. † ● Item 1013  
L.C. card 67-62393 Y 4.B 22/1: Sa 9/3/967
- 15020 Legislation to amend Small business and Small business investment acts, hearings, 90th Congress, 1st session, on H.R. 10409, July 24-Aug. 1, 1967. 1967. v.+337 p. † ● Item 1013  
L.C. card 67-62295 Y 4.B22/1: Sm 1/12

## *District of Columbia Committee, House* Washington, D.C. 20515

- 15021 Amend National Capital transportation act of 1965, hearings before subcommittee no. 4, 90th Congress, 1st session, on H.R. 11395, July 26 and Aug. 23, 1967. 1967. iii+69 p. il. 4 pl. † ● Item 1014  
L.C. card 67-62356 Y 4.D63/1: T 68/6
- 15022 D.C. reorganization proposals, hearings before subcommittee no. 1, 90th Congress, 1st session, on H.R. 10521, H.R. 11555 and H.R. 11635, H.R. 11872, June 27-Aug. 2, 1967. 1967. iii+242 p. † ● Item 1014  
L.C. card 67-62171 Y 4.D63/1: R 29/4

## *Education and Labor Committee, House* Washington, D.C. 20515

- 15023 Amendments to Older Americans act of 1965, hearings before Select Subcommittee on Education, 90th Congress, 1st session, on H.R. 4261, May 10-June 1, 1967. 1967. iv+165 p. † ● Item 1015  
L.C. card 67-62163 Y 4.Ed 8/1: Ol 1/3

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 15024 Economic opportunity act amendments of 1967, hearings, 90th Congress, 1st session, on H.R. 8311. † ● Item 1015  
L.C. card 67-62314 Y 4.Ed 8/1: Ec 7/967/pt. (nos.)  
pt. 1. June 12 and 16, 1967. 1967. iv+1-845 p. il.  
pt. 2. June 19-July 10, 1967. 1967. vii+847-1604 p. il.

- 15025 Extension of National labor relations act to agricultural employees, hearings before Special Subcommittee on Labor, 90th Congress, 1st session, on H.R. 4769, May 1-12, 1967. 1967. vi+294 p. il. † ● Item 1015  
L.C. card 67-62281 Y 4.Ed 8/1: Ag 8

- 15026 Higher education amendments of 1967, hearings before Special Subcommittee on Education, 90th Congress, 1st session, on H.R. 6232 and H.R. 6265. ● Item 1015  
L.C. card 67-62401 Y 4.Ed 8/1: Ed 8/2/26/967/pt.1  
pt. 1. Apr. 17-May 2, 1967. 1967. vi+394 p. il. †

*Foreign Affairs Committee, House*  
Washington, D.C. 20515

- 15027 Foreign assistance act of 1967, hearings, 90th Congress, 1st session, on H.R. 7099. ● Item 1017  
L.C. card 67-61412 Y 4.F76/1: F 76/28/967/pt.4  
pt. 4. May 1-5, 1967. 1967. iv+693-900 p. \* Paper, 55c.

*Government Operations Committee, House*  
Washington, D.C. 20515

- 15028 Better management of research equipment procurement and utilization in Federal laboratories, hearing before subcommittee, 90th Congress, 1st session, Aug. 9, 1967. 1967. iii+161 p. il. † ● Item 1016  
L.C. card 67-62385 Y 4.G74/7: R 31/6

- 15029 Brain drain into United States of scientists, engineers, and physicians, staff study for Research and Technical Programs Subcommittee; July 1967. 1967. v+110 p. il. (Committee print, 90th Congress, 1st session.) †  
L.C. card 67-62114 Y 4.G 74/7: B 73

- 15030 Defense Contract Audit Agency (organization, functions, and relationships with General Accounting Office), hearing before subcommittee, 90th Congress, 1st session, July 28, 1967. 1967. iii+176 p. † ● Item 1016  
L.C. card 67-62278 Y 4.G74/7: D 36/7

- 15031 Department of Justice's handling of Veterans' Administration mortgage foreclosures, hearings before subcommittee, 90th Congress, 1st session, May 23 and 24, 1967. 1967. iv+160 p. † ● Item 1016  
L.C. card 67-62167 Y 4.G74/7: M 84

- 15032 Food and Drug Administration procedures for selection of laboratory sites, hearing before subcommittee, 90th Congress, 1st session, June 28, 1967. 1967. iv+78 p. † ● Item 1016  
L.C. card 67-62165 Y 4.G 74/7: L 11/2

- 15033 Irregularities in performance of painting contracts on Federal facilities in Washington area, hearing before subcommittee, 90th Congress, 1st session, June 22, 1967. 1967. iv+131 p. † ● Item 1016  
L.C. card 67-62177 Y 4.G74/7: P 16

- 15034 Legal information through electronics (Air Force LITE Project), hearing before subcommittee, 90th Congress, 1st session, Aug. 1, 1967. 1967. iii+101 p. il. † ● Item 1016  
L.C. card 67-62284 Y 4.G74/7: L 52

- 15035 Water pollution, central and northern California, hearing before subcommittee, 90th Congress, 1st session, May 19, 1967. 1967. iv+341 p. il. † ● Item 1016  
L.C. card 67-62292 Y 4.G74/7: W 29/3

♠For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 19

# GOVERNMENT PUBLICATIONS

## *House Administration Committee, House Washington, D.C. 20515*

- 15036 U.S. House of Representatives, detailed statement of disbursements, Jan. 1-June 30, 1967. 1967. v+269 p. (Committee print, 90th Congress, 1st session.) ‡  
L.C. card 62-61072 Y 4.H81/3 : D 63/967

## *Interior and Insular Affairs Committee, House Washington, D.C. 20515*

- [Committee hearings] serial, 90th Congress. † ● Item 1023  
Y 4.In8/14 : 90-(nos.)
- 15037 8. Disposition of geothermal steam, 1967, hearings before Subcommittee on Mines and Mining, 90th Congress, 1st session, on H.R. 3577 and related bills, June 12-16, 1967. 1967. v+244 p. il.  
L.C. card 67-62186
- 15038 9. San Rafael Wilderness, hearings before Subcommittee on Public Lands, 90th Congress, 1st session, on H.R. 5161, H.R. 5494, S. 889, June 19-21, 1967. 1967. vi+172 p. il.  
L.C. card 67-62291
- 15039 13. Mountain Park reclamation project, Okla., hearings before Subcommittee on Irrigation and Reclamation, 90th Congress, 1st session, on H.R. 9362, pt. 1. July 15, 1967. 1967. iii+1-97 p. [Hearings held in Altus, Okla.]
- 15040 16. Public Land Law Review Commission, hearings, 90th Congress, 1st session, briefing on Public Land Law Review Commission held Apr. 26, 1967, hearing on H.R. 12121, Aug. 16, 1967. 1967. iii+63 p.  
L.C. card 67-62319

## *Interstate and Foreign Commerce Committee, House Washington, D.C. 20515*

- [Committee hearings] serial, 90th Congress. † ● Item 1019  
Y 4.In8/4 : 90-(nos.)
- 15041 2. Flammable fabrics act and Product Safety Commission, hearings before Subcommittee on Commerce and Finance, 90th Congress, 1st session, on H.R. 5654 [and other bills], Apr. 5-July 31, 1967. 1967. vi+313 p.  
L.C. card 67-62282
- 15042 5. Interstate compact on oil and gas (10th extension), hearing before Subcommittee on Communications and Power, 90th Congress, 1st session, on H.R. 6737 and H.R. 5757, Apr. 18, 1967. 1967. iii+126 p.  
L.C. card 67-62185
- 15043 10. Air quality act of 1967, hearings, 90th Congress, 1st session, on H.R. 9509 and related bills, S. 780, Aug. 15-24, 1967. 1967. vi+887 p. il.  
L.C. card 67-62318

## *Judiciary Committee, House Washington, D.C. 20515*

[Committee hearings] serial, 90th Congress.

- 15044 6. D.C. representation in Congress, hearings, 90th Congress, 1st session, on H.J. Res. 396, and similar proposals, July 19-Aug. 2, 1967. 1967. iv+183 p. †  
Item 1020  
L.C. card 67-62389 Y 4.J89/1 : 90-6

## *Merchant Marine and Fisheries Committee, House Washington, D.C. 20515*

[Committee hearing] serial, 90th Congress.

- 15045 8. Foreign seizures of U.S. fishing vessels, hearing before Subcommittee on Fisheries and Wildlife Conservation, 90th Congress, 1st session, on H.R. 4153 [and other] bills, June 22, 1967. 1967. iv+89 p. † ● Item 1021  
L.C. card 67-62283 Y 4.M 53 : 90-8

## *Post Office and Civil Service Committee, House Washington, D.C. 20515*

- 15046 Improved retirement financing, recommendations of chairman, Civil Service Commission, for use of Subcommittee on Retirement, Insurance, and Health Benefits; June 19, 1967. 1967. viii+23 p. il. (Committee print 2, 90th Congress, 1st session.) ‡  
L.C. card 67-62028 Y 4.P 84/10 : R 31/28

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available



- 15047 Postal revenue act of 1967, summary of hearings on H.R. 7977 and H.R. 7978, bills to adjust certain postal rates, for use of Subcommittee on Postal Rates; July 7, 1967. 1967. iii+15 p. (Committee print 3, 90th Congress, 1st session.) †  
L.C. card 67-62311 Y 4.P 84/10: R 32/3

*Public Works Committee, House*  
Washington, D.C. 20515

[Committee publication], 90th Congress.

- 15048 90-7. Highway safety programs standards, report from Secretary of Department of Transportation to Congress, as required by Highway safety act of 1966 (Public law 89-564, 89th Cong., S. 3052, Sept. 9, 1966); July 1967. 1967. v+40 p. (Committee print.) †  
L.C. card 67-62464 Y 4.P 96/11: 90-7

*Science and Astronautics Committee, House*  
Washington, D.C. 20515

[Paper], 90th Congress, 1st session.

- 15049 5. Presentation of report by Special Panel on Applied Science and Technological Progress of National Academy of Sciences, hearing, 90th Congress, 1st session, May 25, 1967. 1967. iv+39 p. † ● Item 1025-A  
L.C. card 67-62289 Y 4.Scl 2: 90-1/5

*Veterans' Affairs Committee, House*  
Washington, D.C. 20515

- 15050 VA nursing home care programs, hearings before Special Subcommittee on Intermediate Care, 90th Congress, 1st session, on operation of VA nursing home care programs and bills related thereto, June 21-Aug. 24, 1967. 1967. vii+1439-1929 p. il. † ● Item 1027  
L.C. card 67-62360 Y 4.V 64/3: N 93/2

*Ways and Means Committee, House*  
Washington, D.C. 20515

- 15051 Legislative history of H.R. 4573, 90th Congress, 1st session, to provide temporary increase in public debt limit, Public law 90-3, and H.R. 10867, 90th Congress, 1st session, to increase public debt limit set forth in sec. 21 of Second Liberty Bond act, and for other purposes, Public law 90-39; prepared by staff of Committee. 1967. xi+1181 p. il. \* Paper, \$3.25.  
L.C. card 67-62437 Y 4.W 36: D 35/5
- 15052 Legislative history of H.R. 6098, 90th Congress, 1st session, Interest equalization tax extension act of 1967, Public law 90-59, and H.R. 4750, 89th Congress, 1st session, Interest equalization tax extension act of 1965, Public law 89-243; prepared by staff of Committee. 1967. xi+931+vii+583 p. il. \* Paper, \$4.00.  
L.C. card 67-62436 Y 4.W 36: In 8/25
- 15053 Summary of provisions of H.R. 12080, Social security amendments of 1967, as introduced on Aug. 3, 1967 and reported on Aug. 7, 1967 (House report 544, 90th Congress). 1967. iv+18 p. (Committee print, 90th Congress, 1st session.) \* Paper, 15c  
L.C. card 67-62412 Y 4.W 36: So 1/21/967

PRINTING JOINT COMMITTEE  
Washington, D.C. 20510

- 15054 [Government paper specification standards, no. 6, Change, effective Aug. 1, 1967.] June 19, 1967. [30] leaves, 4° [Issued in looseleaf form.] \* Paper, \$2.00 (including supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 1004-B Y 4.P 93/1: 7/6/ch.

# GOVERNMENT PUBLICATIONS

SENATE  
Washington, D.C. 20510

## Senate documents

NOTE.—All Senate documents, entries for which are followed by a †, may be obtained from the Senate Document Room or from the issuing office.

### Senate documents, 90th Congress.

- 15055 19. Mineral and water resources of Missouri, report [with lists of selected references] of United States Geological Survey and Missouri Division of Geological Survey and Water Resources with collaboration of United States Bureau of Mines, United States Soil Conservation Service, Missouri State Park Board, Missouri Water Resources Board, Missouri Water Pollution Board and University of Missouri; and with supplement on Water resource development projects in Missouri, by Department of Army, Corps of Engineers; Apr. 6, 1967. 1967. v+399 p. il. 2 maps, 1 tab. † (To be sent to depository libraries in Serial set binding).  
L.C. card 67-62414
- 15056 37. Salem Church Reservoir, Rappahannock River, Va., letter from chief of engineers, Army, submitting report on review of reports; July 17, 1967. 1967. xxv+106 p. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 15227.] †
- 15057 41. Architect of Capitol, letter from Comptroller General transmitting report to Congress of United States, pursuant to Public law 88-454 (78 Stat. 551), on review of management of and control over expendable supplies and materials; July 31, 1967. 1967. vii+26 p. † ● Item 996
- 15058 42. Canada-United States Interparliamentary Group. Report to Senate on 10th meeting held at Ottawa and Montreal, May 10-14, 1967, by George D. Aiken, Chairman of Senate delegation; Aug. 7, 1967. 1967. v+6 p. † ● Item 996  
L.C. card 59-64053
- 15059 43. Park River basin, Conn., letter from chief of engineers, Army, submitting report on review of reports; Aug. 9, 1967. 1967. xii+70 p. il. 2 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 15225.] †
- 15060 45. Report of Secretary of Senate, Jan. 1-June 30, 1967; Aug. 23, 1967. 1967. iv+539 p. † (To be sent to depository libraries in Serial set binding.)  
L.C. card 9-16161
- 15061 46. Semiannual report of Architect of Capitol, Jan. 1-June 30, 1967; Aug. 28, 1967. 1967. lii+119 p. † ● Item 996

## Senate executive reports

### Senate executive reports, 90th Congress, 1st session. Y 1.90/1 : rp. (nos.)

- 15062 13. Nomination of Thurgood Marshall. Report, together with minority views, from Committee on Judiciary to accompany nomination of Thurgood Marshall. Aug. 21, 1967. 51 p. †  
L.C. card 67-62453
- 15063 14. Commercial treaty with Thailand. Report from Committee on Foreign Relations to accompany Ex.P, 89th Cong., 2d sess. Aug. 26, 1967. 8 p. †
- 15064 16. Withdrawal of certain treaties. Report from Committee on Foreign Relations to accompany S. Ex. Res. 1, Sept. 14, 1967. 4 p. †

## Senate reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

### Senate reports on private bills, 90th Congress. † Senate Document Room, Capitol. ● Item 1008-B

- 15065 471. Documentation of vessel Northwind with full coastwise privileges. Report from Committee on Commerce to accompany H.R. 7043. Aug. 2, 1967. 5 p.
- 15066 477. American Petrofina Co. of Texas, Delaware corporation, and James W. Harris. Report from Committee on Judiciary to accompany S. 1678. Aug. 3, 1967. 4 p.
- 15067 478. Euphemia King Hartley, James Hartley and James Holmes Hartley. Report from Committee on Judiciary to accompany S. 922. Aug. 3, 1967. 3 p.
- 15068 479. Dr. Antonio Martin Ruiz Del Castillo. Report from Committee on Judiciary to accompany S. 1709. Aug. 3, 1967. 4 p.
- 15069 480. Mitsuo Blomstrom. Report from Committee on Judiciary to accompany S. 975. Aug. 3, 1967. 7 p.
- 15070 481. Dr. Ramiro de la Riva Dominguez. Report from Committee on Judiciary to accompany S. 1748. Aug. 3, 1967. 4 p.
- 15071 505. Dr. Orlando Hipolito Maytin. Report from Committee on Judiciary to accompany S. 1938. Aug. 15, 1967. 5 p.
- 15072 512. Rita Butrum. Report from Committee on Judiciary to accompany S. 1899. Aug. 15, 1967. 4 p.
- 15073 520. Eloy C. Navarro. Report from Committee on Judiciary to accompany S. 294. Aug. 17, 1967. 4 p.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

## Senate reports on public bills, 90th Congress. † Senate Document Room, Capitol. ● Item 1008-A

- 15074 413. Placing in trust status certain lands on Wind River Indian Reservation in Wyoming. Report from Committee on Interior and Insular Affairs to accompany S. 528, July 27, 1967. 3 p.
- 15075 450. Certain cases in which Attorney General has suspended deportation. Report from Committee on Judiciary to accompany S. Con. Res. 36. July 27, 1967. 2 p.
- 15076 451. Certain cases in which Attorney General has suspended deportation. Report from Committee on Judiciary to accompany S. Con. Res. 37. July 27, 1967. 2 p.
- 15077 452. Amending Tucker act, to increase from 10,000 to 50,000 jurisdictional limitation of Federal district courts in civil actions against United States. Report from Committee on Judiciary to accompany S. 946. July 27, 1967. 5 p.
- 15078 465. Amending Indian long-term leasing act. Report from Committee on Interior and Insular Affairs to accompany S. 285. July 31, 1967. 10 p.
- 15079 466. Increasing amounts authorized for Indian adult vocational education. Report from Committee on Interior and Insular Affairs to accompany S. 306. July 31, 1967. 4 p.
- 15080 467. Authorizing Secretary of Health, Education, and Welfare, and Secretary of Agriculture to provide food and medical services on emergency basis to prevent human suffering or loss of life. Report from Committee on Labor and Public Welfare to accompany S. 2138. Aug. 1, 1967. 7 p.
- 15081 468. Amending Smali reclamation projects act of 1956, as amended. Report from Committee on Interior and Insular Affairs to accompany S. 862. Aug. 1, 1967. 7 p.
- 15082 469. Departments of Labor, and Health, Education, and Welfare, and related agencies appropriation bill, 1968. Report from Committee on Appropriations to accompany H.R. 10196. Aug. 1, 1967. 95 p.
- 15083 470. Authorizing Committee on Government Operations to investigate crime and lawlessness within United States. Report together with individual views from Committee on Rules and Administration to accompany S. Res. 150. Aug. 1, 1967. 5 p.
- 15084 472. Federal Maritime discovery procedures. Report from Committee on Commerce to accompany S. 706. Aug. 2, 1967. 8 p.
- 15085 473. Constitutional rights. Report from Committee on Judiciary pursuant to S. Res. 194, 89th Cong., 2d sess. Aug. 2, 1967. 43 p.
- 15086 474. Agricultural fair practices. Report from Committee on Agriculture and Forestry to accompany S. 109. Aug. 3, 1967. 10 p.
- 15087 475. Cropland adjustment program, eligibility of farm acquired to replace farm transferred to agency having right of eminent domain. Report from Committee on Agriculture and Forestry to accompany S. 2126. Aug. 3, 1967. 3 p.
- 15088 476. Dairy indemnity payments. Report from Committee on Agriculture and Forestry to accompany S. 1657. Aug. 3, 1967. 3 p.
- 15089 482. Titles 5, 14, and 37, United States Code. Report from Committee on Judiciary to accompany H.R. 5786. Aug. 3, 1967. 107 p.
- 15090 487. Release of valueless liens. Report from Committee on Agriculture and Forestry to accompany S. 1550. Aug. 3, 1967. 5 p.
- 15091 488. Income tax support test in case of children of divorced parents. Report from Committee on Finance to accompany H.R. 6056. Aug. 3, 1967. 6 p.
- 15092 489. Tax-free withdrawal of wine unfit for beverage use. Report from Committee on Finance to accompany H.R. 1282. Aug. 3, 1967. 11 p.
- 15093 490. Income tax treatment of certain distributions pursuant to Bank holding company act of 1956. Report from Committee on Finance to accompany H.R. 4765. Aug. 3, 1967. 37 p.
- 15094 491. National wild and scenic rivers system. Report from Committee on Interior and Insular Affairs to accompany S. 119. Aug. 4, 1967. 17 p. L.C. card 67-62417
- 15095 493. Export-Import Bank, act amendments of 1967. Report of Committee on Banking and Currency to accompany S. 1155 together with individual views; Aug. 4, 1967. 1967. III + 26 p. [Corrected print.]
- 15096 494. Department of Defense appropriation bill, 1968. Report from Committee on Appropriations to accompany H.R. 10738. Aug. 4, 1967. 71 p.
- 15097 495. Anniversary of Bonneville project act. Report from Committee on Interior and Insular Affairs to accompany S. Res. 142. Aug. 9, 1967. 3 p.
- 15098 496. Authorizing additional expenditures by Committee on Judiciary for study of Federal judicial system. Report from Committee on Rules and Administration to accompany S. Res. 149. Aug. 9, 1967. 4 p.
- 15099 497. Authorizing additional expenditures by Committee on Judiciary for study of administrative practices and procedures. Report from Committee on Rules and Administration to accompany S. Res. 130. Aug. 9, 1967. 3 p.
- 15100 498. Authorizing printing of report entitled Parity returns positions of farms as Senate document. Report from Committee on Rules and Administration to accompany S. Res. 147. Aug. 9, 1967. 2 p.
- 15101 500. Amending 1960 act relating to Potomac interceptor sewer. Report from Committee on District of Columbia to accompany S. 1633. Aug. 11, 1967. 8 p.

☛For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## Senate reports on public bills—Continued

- 15102 501. Inter-American development bank act amendments of 1967. Report together with minority views from Committee on Foreign Relations to accompany S. 1688. Aug. 11, 1967. 15 p.
- 15103 502. Fire research and safety act of 1967. Report from Committee on Commerce to accompany S. 1124. Aug. 11, 1967. 10 p.
- 15104 503. Duty treatment of bagpipes. Report from Committee on Finance to accompany H.R. 664. Aug. 15, 1967. 3 p.
- 15105 504. Tariff classification of Chinese gooseberries. Report from Committee on Finance to accompany H.R. 2155. Aug. 15, 1967. 4 p.
- 15106 513. Subversive activities control act of 1950. Report from Committee on Judiciary to accompany S. 2171. Aug. 15, 1967. 23 p.
- 15107 514. Transportation of merchandise to southeastern Alaska. Report from Committee on Commerce to accompany S. 292. Aug. 16, 1967. 13 p.
- 15108 515 [pt. 1.] Election reform report act of 1967. Report of Committee on Rules and Administration to accompany S. 1880 together with supplemental and individual views; Aug. 16, 1967. III+27 p.  
[pt. 2.] Election reform act of 1967. Joint supplemental views of Mr. Clark and Mr. Scott to accompany S. 1880. Aug. 25, 1967. 2 p.
- 15109 516. Apostle Island National Lakeshore. Report from Committee on Interior and Insular Affairs to accompany S. 778. Aug. 17, 1967. 13 p.  
L.C. card 67-62418
- 15110 521. Local law enforcement officers' survivorship compensation. Report from Committee on Judiciary to accompany S. 798. Aug. 17, 1967. 8 p.
- 15111 523. Authorizing Secretary of Interior to acquire certain properties within Colonial National Historical Park, in Yorktown, Va. Report from Committee on Interior and Insular Affairs to accompany H.R. 7362. Aug. 17, 1967. 6 p.
- 15112 524. Amending act of Jan. 17, 1936 (49 Stat. 1091), reserving certain public domain lands in Nevada and Oregon as grazing reserve for Indians of Fort McDermitt, Nev. Report from Committee on Interior and Insular Affairs to accompany S. 2162. Aug. 17, 1967. 3 p.
- 15113 525. Providing for disposition of judgment funds now on deposit to credit of Minnesota Chippewa tribe of Indians on behalf of Mississippi bands and Pillager and Lake Winnibigoshish bands of Chippewa Indians. Report from Committee on Interior and Insular Affairs to accompany S. 1165. Aug. 17, 1967. 18 p.
- 15114 526. Providing for disposition of unclaimed and unpaid share of Loyal Creek judgment fund, and providing for disposition of estate of intestate members of Creek Nation of Oklahoma or estates of members of Creek Nation of Oklahoma dying without heirs. Report from Committee on Interior and Insular Affairs to accompany H.R. 2531. Aug. 17, 1967. 4 p.
- 15115 527. Touchet division, Walla Walla project, Oregon-Wash. Report from Committee on Interior and Insular Affairs to accompany S. 485. Aug. 18, 1967. 11 p.
- 15116 528. Relating to Indian revolving loan fund and Indian heirship land problem. Report from Committee on Interior and Insular Affairs to accompany S. 304. Aug. 18, 1967. 14 p.
- 15117 529. Authorizing consolidation and use of funds arising from judgments in favor of Apache Tribe of Mescalero Reservation and of each of its constituent groups. Report from Committee on Interior and Insular Affairs to accompany S. 1727. Aug. 18, 1967. 19 p.
- 15118 530. Providing for disposition of judgment funds now on deposit to credit of Cheyenne-Arapaho Tribes of Oklahoma. Report from Committee on Interior and Insular Affairs to accompany S. 1935. Aug. 18, 1967. 12 p.
- 15119 531. Providing for disposition of funds appropriated to pay judgments in favor of Sac and Fox of Mississippi in Iowa and in Oklahoma and Sac and Fox of Missouri in Kansas and Nebraska in Indian Claims Commission dockets 138 and 143. Report from Committee on Interior and Insular Affairs to accompany S. 1750. Aug. 18, 1967. 20 p.
- 15120 532. Establishing National Park Foundation. Report from Committee on Interior and Insular Affairs to accompany S. 814. Aug. 21, 1967. 10 p.  
L.C. card 67-62416
- 15121 534. Protecting privacy and rights of Federal employees. Report from Committee on Judiciary to accompany S. 1035. Aug. 21, 1967. 44 p.
- 15122 535. Providing that United States hold certain Chillico Indian school lands at Chillico, Okla., in trust for Cherokee Nation upon payment by Cherokee Nation of \$3.75 per acre to Federal Government. Report from Committee on Interior and Insular Affairs to accompany H.R. 536. Aug. 21, 1967. 6 p.
- 15123 537. Providing for termination of Federal supervision over property of Confederated Tribes of Colville Indians located in Washington and individual members thereof, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany S. 282. Aug. 22, 1967. 26 p.
- 15124 538. Design and construction of public buildings financed with Federal funds to be accessible to physically handicapped. Report from Committee on Public Works to accompany S. 222. Aug. 24, 1967. 9 p.
- 15125 539. Amending college work-study program in title 1 of Economic opportunity act of 1964. Report from Committee on Labor and Public Welfare to accompany H.R. 11945. Aug. 25, 1967. 4 p.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15126 542. Authorization for highway beautification program. Report from Committee on Public Works to accompany S. 1467. Aug. 25, 1967. 21 p.
- 15127 544. Facilitating computation of tobacco acreage allotments. Report from Committee on Agriculture and Forestry to accompany S. 1564. Aug. 28, 1967. 5 p.
- 15128 545. Relocation of Pleasanton Plant Materials Center. Report from Committee on Agriculture and Forestry to accompany H.R. 547. Aug. 28, 1967. 3 p.
- 15129 546. Land conveyance, Glendale, Ariz. Report from Committee on Agriculture and Forestry to accompany S. 974. Aug. 28, 1967. 4 p.
- 15130 547. Stockholder personal liability on land bank loans. Report from Committee on Agriculture and Forestry to accompany S. 1568. Aug. 28, 1967. 4 p.
- 15131 548. Independent offices and Department of Housing and Urban Development appropriation bill, 1968. Report from Committee on Appropriations to accompany H.R. 9960. Aug. 29, 1967. 29 p.
- 15132 549. National flood insurance act of 1967. Report of Committee on Banking and Currency to accompany S. 985; Aug. 29, 1967. 1967. iii+36 p. L.C. card 67-62415
- 15133 550. Full disclosure of corporate equity ownership and in corporate takeover bids. Report of Committee on Banking and Currency to accompany S. 510; Aug. 29, 1967. 1967. iii+16 p.
- 15134 551. Promoting economic development of Guam. Report from Committee of Interior and Insular Affairs to accompany S. 1763. Aug. 29, 1967. 10 p.
- 15135 552. Authorizing printing of additional copies of committee print entitled Planning-programming-budgeting, selected comment. Report from Committee on Rules and Administration to accompany S. Res. 163. Aug. 30, 1967. 2 p.
- 15136 553. Authorizing additional expenditures by Committee on Labor and Public Welfare for study of matters relating to poverty. Report from Committee on Rules and Administration to accompany S. Res. 164. Aug. 30, 1967. 3 p.
- 15137 554. Authorizing study of matters pertaining to education and related problems of Indian children. Report from Committee on Rules and Administration to accompany S. Res. 165. Aug. 30, 1967. 4 p.
- 15138 555. Amending legislative branch appropriation act, 1959, as it relates to transportation expenses of Members of House of Representatives, and for other purposes. Report from Committee on Rules and Administration to accompany H.R. 9837. Aug. 30, 1967. 3 p.
- 15139 556. Authorizing printing of additional copies of Senate hearings on Housing legislation of 1967. Report from Committee on Rules and Administration to accompany S. Con. Res. 42. Aug. 30, 1967. 2 p.
- 15140 557. Authorizing printing of additional copies of committee print entitled Planning-programming-budgeting, official documents. Report from Committee on Rules and Administration to accompany S. Res. 162. Aug. 30, 1967. 2 p.
- 15141 558. Authorizing printing of report entitled Waste from watercraft as Senate document. Report from Committee on Rules and Administration to accompany S. Res. 157. Aug. 30, 1967. 2 p.
- 15142 560. Authorizing printing of report entitled Automotive air pollution as Senate document. Report from Committee on Rules and Administration to accompany S. Res. 159. Aug. 30, 1967. 2 p.
- 15143 561. Predictions and projections of election results. Report of Committee on Commerce; Aug. 30, 1967. 1967. ii+10 p. [Includes supplemental views of Vance Hartke.]

*Aging, Special Committee on, Senate*  
Washington, D.C. 20510

- 15144 Reduction of retirement benefits due to social security increases, report by Subcommittee on Employment and Retirement Incomes, together with minority views; Aug. 21, 1967. 1967. iii+23 p. (committee print, 90th Congress, 1st session.) \* Paper, 15c.  
L.C. card 67-62312 Y 4.Ag4: R 31/4

*Agriculture and Forestry Committee, Senate*  
Washington, D.C. 20510

- 15145 Community centers and FHA loans and grants, hearings before subcommittee, 90th Congress, 1st session, on S. 1479, S. 1504, and S. 1642, July 12 and 13, 1967. 1967. v+270 p. 6 p. † ● Item 1032  
L.C. card 67-62160 Y 4.Ag8/2: C 73/21
- 15146 User changes for inspection services, hearing before subcommittee, 90th Congress, 1st session, on S. 1389, S. 1476, and S. 1655, Aug. 29, 1967. 1967. iii+25 p. † ● Item 1032  
L.C. card 67-62353 Y 4.Ag8/2: In 7

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## *Appropriations Committee, Senate*

*Washington, D.C. 20510*

- 15147 Independent offices and Department of Housing and Urban Development appropriations, fiscal year 1968, hearings before subcommittee, 90th Congress, 1st session, on H.R. 9960. † ● Item 1032

L.C. card 60-61618

Y 4.Ap6/2 : In 2/968/pt. (nos.)

pt. 1. Civil Aeronautics Board, Civil Defense, Department of Defense, Civil Service Commission, disaster relief (funds appropriated to President), emergency health and welfare activities, DHEW, Federal Communications Commission, Federal Home Loan Bank Board, Federal Power Commission, Federal Trade Commission, General Services Administration, Interstate Commerce Commission, National Aeronautics and Space Council, National Science Foundation, Office of Emergency Planning, Office of Science and Technology, President's Commission on Postal Organization (Executive Office of the President), Renegotiation Board, Securities and Exchange Commission, Selective Service System, Veterans Administration, general provisions, testimony of Members of Congress, other interested individuals and organizations. 1967. ii+1115+xxx p. il.

pt. 2. Department of Housing and Urban Development, Federal Housing Administration, Federal National Mortgage Association, testimony of members of Congress, other interested individuals and organizations. 1967. ii+696+xviii p. il.

## *Armed Services Committee, Senate*

*Washington, D.C. 20510*

- 15148 Nominations, hearings, 90th Congress, 1st session, on Charles F. Baird, of Maryland, to be Under Secretary of Navy, Eugene M. Becker, of New York, to be Assistant Secretary of Army, John T. McNaughton, of Illinois, to be Secretary of Navy, Thomas H. Moorer, to be Chief of Naval Operations, Paul H. Nitze, of Maryland, to be Deputy Secretary of Defense, Paul C. Warnke, of District of Columbia, to be Assistant Secretary of Defense, June 8 and 28, 1967. 1967. iii+38 p. † ● Item 1034

L.C. card 67-62288

Y 4.Ar5/3 : N 72/9/967

- 15149 Nominations of Paul R. Ignatius to be Secretary of Navy and Townsend Hoopes to be Under Secretary of Air Force, hearing, 90th Congress, 1st session, Aug. 17, 1967. 1967. iii+19 p. † ● Item 1034

L.C. card 67-62392

Y 4.Ar5/3 : Ig 5

## *Banking and Currency Committee, Senate*

*Washington, D.C. 20510*

- 15150 Export-Import Bank participation and financing in credit sales of defense articles, hearing, 90th Congress, 1st session, on S. 1155, July 25, 1967. 1967. iii+49 p. [Committee met in executive session to consider further S. 1155.] † ● Item 1035

L.C. card 67-62280

Y 4.B22/3 : Ex 7/17

- 15151 Mortgage credit, hearings before Subcommittee on Housing and Urban Affairs, 90th Congress, 1st session, June 12-28, 1967. 1967. viii+286 p. il. † ● Item 1035

L.C. card 67-62286

Y 4.B22/3 : M 84/11

- 15152 Mutual fund legislation of 1967, hearings, 90th Congress, 1st session, on S. 1659. † ● Item 1935

L.C. card 67-62316

Y 4.B22/3 : M 98/pt. (nos.)

pt. 1. July 31-Aug. 2, 1967. 1967. xviii+1-547 p. il.

pt. 2. Aug. 3-15, 1967. 1967. xviii+549-1027 p. il.

## *Commerce Committee, Senate*

*Washington, D.C. 20510*

[Committee hearing] serial, 90th Congress.

- 15153 18. Nominations of Haddon, Syphers, Hardin, Barrett, and Bagge, joint hearing before Committee on Commerce and Committee on Public Works, Senate, 90th Congress, 1st session, on Nominations of William Haddon, Jr., Director, National Highway Safety Bureau, Grant E. Syphers, Interstate Commerce Commissioner, Dale Wayne Hardin, Interstate Commerce Commissioner, Ashton C. Barrett, Federal Maritime Commissioner, Carl E. Bagge, Federal Power Commissioner, July 11, 1967. 1967. iii+43 p. il. † ● Item 1041 and 1045

L.C. card 67-62175

Y 4.C73/2 : 90-18

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

*Finance Committee, Senate*  
Washington, D.C. 20510

- 15154 Social security amendments of 1967, hearings, 90th Congress, 1st session, on H.R. 12080.  
L.C. card 67-62386 Y 4.F 49: So 1/8/967/pt.1  
pt. 1. Aug. 22-24, 1967. v+1-736 p. il. \* Paper, \$2.00 ● Item 1038

*Foreign Relations Committee, Senate*  
Washington, D.C. 20510

- 15155 Arms sales to Near East and South Asian countries, hearings before Subcommittee on Near Eastern and South Asian Affairs, 90th Congress, 1st session, Mar. 1-June 22, 1967. v+102 p. † ● Item 1039  
L.C. card 67-62019 Y 4.F 76/2: Ar 5/13

*Government Operations Committee, Senate*  
Washington, D.C. 20510

- 15156 Commission on Balanced Economic Development and Northwest Regional Services Corporation, hearings, 90th Congress, 1st session, on S.J. Res. 64 and S. 1602, June 12-July 21, 1967. vi+351 p. † ● Item 1037  
L.C. card 67-62168 Y 4.G74/6: Ec 7
- 15157 Federal role in urban affairs, hearings before Subcommittee on Executive Reorganization, 89th Congress, 2d session.  
L.C. card 67-67-60155 Y 4.F74/6: Ur 1/4/pt.13  
pt. 13. Dec. 13, 1966. 1v+2639-2877 p. \* Paper, 60c. ● Item 1037
- 15158 Planning-programming-budgeting, hearings before Subcommittee on National Security and International Operations, 90th Congress, 1st session.  
● Item 1037  
L.C. card 67-62397 Y 4.G74/6: P 69/4/pt.1  
pt. 1. [Testimony of] Charles L. Schultze, director, Bureau of Budget, Aug. 23, 1967. 1967. iii+63 p. †
- 15159 Reorganization plan no. 3 of 1967, District of Columbia Government, hearings, 90th Congress, 1st session, on reorganization plan no. 3 of 1967, to provide better government for citizens of Nation's capital, July 25-27, 1967. 1967. iii+171 p. † ● Item 1037  
L.C. card 67-62174 Y 4.G74/6: R 29/967/no.3

*Interior and Insular Affairs Committee, Senate*  
Washington, D.C. 20510

- 15160 Foss Reservoir, Okla., hearing before Subcommittee on Water and Power Resources, 90th Congress, 1st session, on S. 1946, Aug. 10, 1967. 1967. iii+76 p. † ● Item 1040  
L.C. card 67-62388 Y 4.In 8/13: F 79
- 15161 Interior nomination, hearing, 90th Congress, 1st session, on nomination of David S. Black to be under Secretary of Interior, July 17, 1967. 1967. ii+17 p. † ● Item 1040  
L.C. card 67-62413 Y 4.In 8/13: N 72/967
- 15162 National Park Foundation, hearing before Subcommittee on Parks and Recreation, 90th Congress, 1st session, on S. 814, July 20, 1967. 1967. iii+21 p. † ● Item 1040  
L.C. card 67-62315 Y 4.In 8/13: N 21p
- 15163 North Cascades, hearings before Subcommittee on Parks and Recreation, 90th Congress, 1st session, on S. 1321, Apr. 24-May 29, 1967. 1967. xxvi+1103 p. il. † ● Item 1040  
L.C. card 67-62294 Y 4.In 8/13: N 81c/2
- 15164 Redwood National Park, hearings before Subcommittee on Parks and Recreation, 90th Congress, 1st session, on S. 1370, S. 514, and S. 1526, Apr. 17-19, 1967. 1967. viii+449 p. il. † ● Item 1040  
L.C. card 67-62179 Y 4.In 8/13: R 24/8/967



# GOVERNMENT PUBLICATIONS

## *Judiciary Committee, Senate* Washington, D.C. 20510

- 15165 Antiriot bill, 1967, hearings, 90th Congress, 1st session, on H.R. 421.  
● Item 1042  
L.C. card 67-62299 Y 4.J 89/2: An 8/18/pt.1  
pt. 1. Aug. 2-11, 1967. 1967. iii+588 p. il. \* Paper, \$1.75.
- 15166 Controlling crime through more effective law enforcement, hearings before Subcommittee on Laws and Procedures, 90th Congress, 1st session, on S. 300 [and other bills], Mar. 7-July 12, 1967. 1967. xii+1205 p. \* Paper, \$3.50. ● Item 1042  
L.C. card 67-62296 Y 4.J 89/2: C 86/6
- 15167 Monday holidays, hearing before subcommittee, 90th Congress, 1st session, on S. 1217, Aug. 1, 1967. 1967. iv+119 p. † ● Item 1042  
L.C. card 67-62285 Y 4.J 89/2: M 74/2
- 15168 Second supplement (1961-66) to cumulative index to published hearings and reports of Subcommittee to Investigate Administration of Internal Security Act and Other Internal Security Laws. 1967. ii+355 p. (Committee print, 90th Congress, 1st session.) †  
L.C. card 57-60563 Y 4.J 89/2: In 2/3/961-66
- 15169 Supplement to cumulative index to published hearings and reports of Subcommittee to Investigate Administration of Internal Security Act and Other Internal Security Laws, 1956-60. 1962. ii+457 p. (Committee print, 87th Congress, 2d session.) †  
L.C. card 57-60563 Y 4.J 89/2: In 2/3/956-60

## *Labor and Public Welfare Committee, Senate* Washington, D.C. 20510

- 15170 Bilingual education, hearings before Special Subcommittee on Bilingual Education, 90th Congress, 1st session, on S. 428. † ● Item 1043.  
L.C. card 67-62297 Y 4.L 11/2: B 49/2/pt. (nos.)  
pt. 1. May 18-31, 1967. 1967. xi+1-407 p. il.  
pt. 2. June 24 and July 21, 1967. 1967. xi+409-681 p.
- 15171 Examination of war on poverty, hearings before Subcommittee on Employment, Manpower, and Poverty, 90th Congress, 1st session. † ● Item 1043  
L.C. card 67-61640 Y 4.L 11/2: P 86/4/pt. (nos.)  
pt. 6. May 8 and 9, 1967. 1967. viii+1749-2045 p. [Hearings held in New York, N.Y.]  
pt. 7. June 8, 1967. 1967. iv+2047-2371 p.  
pt. 8. June 9, 1967. 1967. v+2373-2691 p. il.
- 15172 Vocational rehabilitation amendments of 1967, hearing before Subcommittee on Health, 90th Congress, 1st session, on S. 1618, Aug. 14, 1967. 1967. iii+69 p. † ● Item 1043  
L.C. card 67-62172 Y 4.L 11/2: V 85/2

## *Public Works Committee, Senate* Washington, D.C. 20510

- 15173 Accessibility of public buildings to physically handicapped, hearing before Subcommittee on Public Buildings and Grounds, 90th Congress, 1st session, on S. 222, July 17, 1967. 1967. iii+96 p. il. † ● Item 1045  
L.C. card 67-62173 Y 4.P 96/10: P 56
- 15174 Highway beautification and highway safety programs, hearings before Subcommittee on Roads, 90th Congress, 1st session, on S. 1467, June 28-July 20, 1967. 1967. v+462 p. il. † ● Item 1045  
L.C. card 67-62298 Y 4.P 96/10: H 53/21/967
- 15175 Nominations of Haddon, Syphers, Hardin, Barrett, and Bagge, joint hearing. See Commerce Committee, Senate.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 15176 Senate office space, hearing before Subcommittee on Public Buildings and Grounds, 90th Congress, 1st session, on additional office space for Senate, Aug. 3, 1967. 1967. iii+46 p. † ● Item 1045  
L.C. card 67-62352 Y 4.P 96/10: Se 5

**CONSUMER AND MARKETING SERVICE, Agriculture Dept.  
Washington, D.C. 20250**

- 15177 Light air-cured tobacco market review, pt. 2, type 32, Maryland, 1966 crop (1967 season). Aug. 1967. 16 p. il. 4° (Tobacco Division; TOB-LA-11, pt. 2) † ● Item 24-D A 88.34/5: 966-67/pt.2
- 15178 United States standards for grades of refiners' sirup, effective June 15, 1967. 1st issue as amended. [1967.] [2]+4 p. 4° [Reprinted in latest edition of Federal register of June 15, 1967. Supersedes standards which have been in effect since Jan. 5, 1952.] † Chief, Processed Branch, Fruit and Vegetable Division, C&MS, Department of Agriculture, Washington, D.C. 20250 A 88.6/2: Si 79/3

**CUSTOMS BUREAU, Treasury Dept.  
Washington, D.C. 20226**

- 15179 Conseils pratiques a l'intention des non-résidents, concernant les formalités douanières aux Etats-Unis Amérique. [May 1967.] 12 p. il. narrow 8°  
\* Paper, \$5.25 per 100; single copy, 10c. T 17.2: C 96/5/967/French

**DEFENSE DEPARTMENT  
Washington, D.C. 20301**

**Armed Forces Institute study guide.**

- 15180 D 226.1. World geography II, high school course, study guide for use with USAFI course D 226; by Russell S. Spindler. 1967. 77 p. il. 4° † ● Item 305  
L.C. card 67-62365 D 1.10: D 226.1
- 15181 Atlas of tumor pathology [published by Armed Forces Institute of Pathology under auspices of subcommittee on oncology of Committee on Pathology of Division of Medical Sciences of National Academy of Sciences, National Research Council]. [Issued with perforations.]  
sec. 6. fascicle 22. Tumors of the Intestines [with list of references: by] David A. Wood. [Army AFIP.] Washington, D.C., 1967. [1]+261+[5] p. il. 4° [The last 5 pages are left blank to be used for professional notes and findings. Some illustrations are colored.] † (Price upon application), American Registry of Pathology, Armed Forces Institute of Pathology, Washington, D.C. 20305.  
L.C. card 50-61290 D 1.16: 6/22

**Defense Supply Agency DSAR (series).**

- 15182 4145.26. Commercial warehouse service plan for Department of Defense agencies. [July 12, 1967.] 13+[2] p. 4° (AR 740-30; NAVSUPINST 4450.19; AFR 67-73; MCO 4050.2.) [Supersedes DSAR 4145.26, AR 740-30, NAVSUPINST 4450.19, MCO 4450.9, Sept. 23, 1966, and AFR 67-73, Aug. 28, 1959. Issued in looseleaf form.] \* Paper, 10c. ● Item 323  
D 7.6/6: 4145.26/2
- 15183 Federal item identification guide: Conduit fittings; [prepared by Defense General Supply Center]. June 16, 1967. cover title, ix+[60] p. il. 4° (FIIG A018; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] \* Paper, 45c. ● Item 314-A D 7.6/4: C 75
- 15184 — Furnaces and space heaters. May 26, 1967. cover title, ix+[37] p. 4° (FIIG A013; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] \* Paper, 35c. ● Item 314-A D 7.6/4: F 98
- 15185 — Inner tube, pneumatic tire. June 9, 1967. cover title, vi+[16] p. 4° (FIIG A009; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] \* Paper, 25c. ● Item 314-A D 7.6/4: In 6

# GOVERNMENT PUBLICATIONS

- 15186 Federal item identification guide: Rivets, rivet caps, and collars. May 26, 1967. cover title, x+[89] p. il. 4° (FIIG A040; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] \* Paper, 65c. ● Item 314-A D 7.6/4: R 52
- 15187 — Threaded fasteners. May 1, 1967. cover title, xxi+[243] p. il. 4° (FIIG A003; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] \* Paper, \$1.50. ● Item 314-A D 7.6/4: F 26
- 15188 Index of specifications and standards: July 1, 1967. [1967.] [Issued in looseleaf form.] [Supersedes Index dated July 31, 1966 and supplement dated May 31, 1967.] \* Paper, \$20.00 (including basic issues pt. 1 and 2, with cumulative bi-monthly supplements for each part for an indefinite period); \$5.00 additional for foreign mailing. ● Item 314-G  
L.C. card 67-1775 D 7.14: 967/pt.2  
pt. 2. Numerical listing. viii + 934 + 134 p. 4°
- Military standards. ‡ ● Item 314-J D 7.10: (nos.)
- 15189 MIL-STD-640E(AT). Sedans, station wagons, ambulances, and buses, standard models and special equipment requirements. May 24, 1967. [2]+6 p. 4° (FSC 2310.) [Issued with perforations. Supersedes MIL-STD-640D, Aug. 15, 1964.]
- 15190 MIL-STD-641E(AT). Trucks and truck tractors, commercial, gasoline and diesel engine driven, 3200 pounds to 32,000 pounds GVW, 4X2, standard models and special equipment requirements. May 23, 1967. [2]+9 p. 4° (FSC 2320.) [Issued with perforations. Supersedes MIL-STD-641D, Aug. 15, 1964.]
- 15191 MIL-STD-803A-3(USAF). Human engineering design criteria for aerospace systems and equipment: pt. 3. Aerospace vehicles and vehicle equipment. May 19, 1967. x+79 p. il. 40° (Misc.) [Includes list of guidance documents. Supersedes MIL-STD-803(USAF), Nov. 5, 1959.]
- 15192 MIL-STD-1176(AT). Trucks and truck tractors, commercial, gasoline and diesel, 36,000 pounds to 60,000 pounds GVW, 6X6, standard models and special equipment requirements. May 22, 1967. [2]+4 p. 4° (FSC 2320.) [Issued with perforations.]
- 15193 MIL-STD-1203. Inorganic salts and compounds, technical grade (aluminum ammonium sulfate through barium peroxide). Mar. 31, 1967. vi+27 p. 4° (FSC 6810.) [Issued with perforations.]
- 15194 MIL-STD-1209. Inorganic salts and compounds, technical grade (strontium nitrate through zinc oxide). May 8, 1967. v+19 p. 4° (FSC 6810.)
- 15195 MIL-STD-1229D(AT). Trucks and truck tractors, commercial, gasoline engine driven, 3500 to 34,000 pounds GVW, 4X4, standard models and special equipment requirements. May 23, 1967. [2]+7 p. 4° (FSC 2320.) [Issued with perforations. Supersedes MIL-STD-1229C, Aug. 15, 1964.]
- 15196 MIL-STD-1230D(AT). Same: gasoline and diesel engine driven, 34,500 to 64,000 pounds GVW, 6X4, standard models and special equipment requirements. May 23, 1967. [2]+5 p. 4° (FSC 2320.) [Issued with perforations. Supersedes MIL-STD-1230C, Aug. 15, 1964.]
- 15197 MIL-STD-1271A. Symbols to supplement text of instruction plates for military vehicles. June 1, 1967. v+10 p. il. 4° (FSC 2320.) [Issued with perforations. Supersedes MIL-STD-1271, May 5, 1962.]
- 15198 MIL-STD-1312. Fasteners, test methods. May 31, 1967. v+[17] p. il. 4° (FSC 5300.)
- 15199 MILSTRIP military standard requisitioning & issue procedures, Change 15; July 15, 1967. [1967.] [210] p. 4° (DoD 4140.17-M; Office of Assistant Secretary of Defense, (Installation and Logistics).) [Issued in looseleaf form.] \* Paper, \$1.25. ● Item 314-A D 7.6/4: M 59/ch.15

[Poster] DSA P-(series). (Defense Supply Agency.)

- 15200 5220.6. Security takes no vacation! 1967. 22 x 14 in. \* Paper, 15c. D 7.19: 5220.6

\*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

**DISTRICT OF COLUMBIA  
Washington, D.C. 20004**

- 15201 List of legal investments for trust funds in District of Columbia, as of July 1, 1967. [1967.] ii+69 p. [Semiannual.] † Office of Register of Wills and Clerk of Probate Court, Washington, D.C. ● Item 430-A DC 21.9: 967-2

**ECONOMIC DEVELOPMENT ADMINISTRATION, Commerce Dept.  
Washington, D.C. 20230**

- 15202 Maximum grant rates for public works grants in qualified areas under Public works and economic development act of 1965, Public law 89-136. July 30, 1967, cover title, viii+63 p. 4° ([Office of Planning Support, Qualification Division.]) † ● Item 130-D  
L.C. card 66-61562 C 46.2: P 96/5/967

**ECONOMIC OPPORTUNITY OFFICE, Executive Office of the  
President, Washington, D.C. 20506**

- 15203 How to apply for legal services program. [1967.] v+[34] p. 4° (Community Action Program: C-20a.) † ● Item 857-H-2 PrEx 10.8: L 52/2  
Project Head Start (series).
- 15204 11. Daily program 3 for child development center [manual for teachers, with list of publications for further reading; by Minnie Perrin Berson]. [1967.] cover title, 48 p. il. ([H 27; Community Action Program.]) [Text on p. 4 of cover.] † ● Item 857-H-2 PrEx 10.12: 11
- 15205 So . . . you want to be a cosmetologist. [1967.] [6] p. il. narrow 12° (Job Corps Center for Women.) † ● Item 857-H-11 PrEx 10.20: C 82
- 15206 So . . . you want to be a licensed practical nurse. [1967.] [6] p. il. narrow 12° (Job Corps Center for Women.) † ● Item 857-H-11  
PrEx 10.20: N 93
- 15207 So . . . you want to be a secretary. [1967.] [6] p. il. narrow 12° (Job Corps Center for Women.) † ● Item 857-H-11 PrEx 10.20: Se 2
- 15208 Who will open this child's eyes? Retired teachers have an opportunity to reach the forgotten through VISTA, Volunteers in Service to America. [1967.] [3] p. il. narrow 8° † ● Item 857-H PrEx 10.2: C 43/3

**ECONOMIC RESEARCH SERVICE, Agriculture Dept.  
Washington, D.C. 20250**

**Foreign agricultural economic report.**

- 15209 35. World food situation, prospects for world grain production, consumption, and trade: [by Martin E. Abel and Anthony S. Rojko]. [1967.] [1]+iii +29 p. il. 4° \* Paper, 20c. ● Item 42-B  
L.C. card Agr 67-320 A 93.27: 35

**EDUCATION OFFICE, Health, Education, and Welfare Dept.  
Washington, D.C. 20202**

- 15210 Campus and community, address by Harold Howe II, Commissioner of Education, Department of Health, Education, and Welfare [before National Working Conference, State Commissions for Higher Education Facilities, Raleigh, N.C., Aug. 7, 1967. [1967.] 11 leaves, 4° †  
FS 5.8: H 83/36
- 15211 Education directory 1966-67: pt. 1, State governments; [prepared by Madeline G. Hagermann]. [1967.] cover title, 158 p. ([OE-20004-67.]) [Text on p. 2 of cover.] \* Paper, 60c. ● Item 460 & 460-A-20  
L.C. card E 13-213 FS 5.25: 966-67/pt.1
- 15212 Education '67, its programs and services [with lists of supplementary materials]. [1967.] iv+97 p. il. oblong 16° ([OE-11006-67.]) \* Paper, 35c. ● Item 460-A-11  
L.C. card HEW 67-146 FS 5.211: 11006-67

# GOVERNMENT PUBLICATIONS

- 15213 Nobody wanted school desegregation [but the law said it had to be done and Moore County, N.C., did it in a quiet, sensible way; by David Cooper]. [1967.] [4] p. il. large 4° ([OE-38004.]) [Reprinted from American education, June 1967.] \* Paper, 10c. ● Item 460-A-38  
FS 5.238: 38004
- 15214 Peering across the generation gap, address by Harold Howe II, Commissioner of Education, Department of Health, Education, and Welfare, before annual national conference, National Student Association, College Park, Md., Aug. 22, 1967. 12 leaves, 4° †  
FS 5.8: H 83/38
- 15215 [Pennywise teenagers; by Esther Peterson.] [1966.] [6] p. il. large 4° ([OE-10044.]) [Reprinted from American education, Apr. 1966.] \* Paper, 15c. ● Item 460-A-10  
FS 5.210: 10044
- 15216 Postdoctoral fellowships in educational research. [1967.] 6 p. il. narrow 8° ([OE-55037-67.]) † ● Item 460-A-55  
FS 5.255: 55037-67
- 15217 Schoolhouses for big cities; by William W. Chase. [1965.] 10+[2] p. il. f° (OE-21031.) [Reprint from American education, Feb. 1965.] \* Paper, 25c.  
FS 5.221: 21031
- 15218 Title 1, Elementary and secondary education act of 1965 (Pl 89-10), school year 1965-66, highlights. [1967.] cover title, [1]+18 p. il. oblong 12° (Division of Compensatory Education, Bureau of Elementary & Secondary Education.) † ● Item 461 (Rev. 1965).  
FS 5.2: E1 2/5/965-66

## EMPLOYEES' COMPENSATION BUREAU, Labor Dept. Washington, D.C. 20210

- 15219 When injured at work [guide for injured Federal employees]. [Revised] June 1967. [1967.] [4] p. il. narrow 8° (Pam BEC-11.) †  
L 26.6/2: In 5/967

## EMPLOYMENT SECURITY BUREAU, Labor Dept. Washington, D.C. 20210

- 15220 Attention: New veterans! older veterans! Veterans Employment Service will help you start or resume your civilian career, here are facts. [1967.] [6] p. il. narrow 8° † ● Item 755  
L 7.2: V 64/11
- 15221 Manpower development and training act of 1962, as amended, MDTA handbook: chap. 3, Training project development; Dec. 1965. [Revised edition.] [1967.] cover title, vi+[172] p. 4° (Employment Service, Branch of Training Procedures and Standards.) [Issued in looseleaf form.] † ● Item 756-B  
L 7.25/3: M 31/chap.3
- 15222 Rural youth, what kind of work would you like to do? [with list of reading material]. [1967.] [2]+[8] p. il. ([United States Employment Service.]) † ● Item 755  
L 7.2: Y 8/8
- 15223 Success [for Negro Americans in field of employment]. [1967.] [2]+34+[4] p. il. oblong 24° [United States Employment Service.] † ● Item 755  
L 7.2: Su 1

## ENGINEERS CORPS (Army), Defense Dept.

NOTE.—Orders or requests for publications of the Engineers Corps, other than those sold by the Superintendent of Documents or by offices of the Engineers Corps in other cities, should be addressed to Chief of Engineers, U.S. Army, Washington, D.C., 20310, Attention Publications Office.

- 15224 Atchafalya River and Bayous Chene, Boeuf, and Black, La., letter from chief of engineers, Army, submitting report on review of reports; Aug. 10, 1967. 1967. xii+76 p. il. 1 pl. 4° [Also issued as H. doc. 155, 90th Cong., 1st sess.] † ● Item 334-A  
D 103.22: At 2/2
- 15225 Park River basin, Conn., letter from chief of engineers, Army, submitting report on review of reports; Aug. 9, 1967. 1967. xii+70 p. il. 2 pl. 4° [Also issued as S. doc. 43, 90th Cong., 1st sess.] † ● Item 334-A  
D 103.22: P 21

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

## Regulations ER (series). [Issued in looseleaf form.]

- 15226 1190-1-10. Joint civil defense support group (CE-NAVFAC), national fallout shelter survey program, phase 1 survey instructions, Aug. 1, 1967. cover title, [85] p. il. 4° [Rescinds ER 1190-1-10, Dec. 1, 1966.] † ● Item 341 D 103.6/4 : 1190-1-10
- 15227 Salem Church Reservoir, Rappahannock River, Va., letter from chief of engineers, Army, submitting report on review of reports; July 17, 1967. 1967. xxv+106 p. 1 pl. 4° [Also issued as S. doc. 37, 90th Cong., 1st sess.] † ● Item 334-A D 103.22 : Sa 3/7
- 15228 Sweetwater River, San Diego County, Calif., letter from chief of engineers, Army, submitting report; July 24, 1967. 1967. xxxiv+116 p. il. 1 pl. 4° [Also issued as H. doc. 148, 90th Cong., 1st sess.] † ● Item 334-A D 103.22 : Sw 3

## Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, Miss. (price upon application).

## — Miscellaneous paper.

- 15229 4-919. Environmental characteristics of tunnels in South Vietnam; by E. E. Addor. Army-MRC Vicksburg, Miss., Aug. 1967. x+54+[204] p. il. 4° [Sponsored by Advanced Research Projects Agency, Directorate of Remote Area Conflict, ARPA order 919 and Army Materiel Command; AMC project 1V02500114131.] † D 103.24/4 : 4-919

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION,  
Commerce Dept., Washington, D.C. 20235

## ESSA professional paper.

- 15230 1. Effects of tropical cyclone rainfall on distribution of precipitation over Eastern and Southern United States [with list of references; by] George W. Cry. June 1967. iv+67 p. il. 4° \* Paper, 50c. ● Item 208-B-6 C 52.20 : 1  
L.C. card 67-62462

ESSA technical memorandum. (Institutes for Environmental Research;  
National Severe Storms Laboratory.)

- 15231 IERTM-NSSL-33. On continuity of water substance [with lists of references; by] Edwin Kessler. Apr. 1967. xiv+125 p. il. 4° Φ Paper, \$3.00. C 52.15/2 : IERTM-NSSL-33

- 15232 Federal plan for weather radars & remote displays [fiscal years 1967-71; prepared by Interdepartmental Committee for Meteorological Services of Office of Federal Coordinator for Meteorological Services and Supporting Research]. [May 1967.] cover title, [2]+54 p. il. oblong 8° (OFCM-67-3.) [Prepared in cooperation with Air Force, Army, Federal Aviation Administration, National Aeronautics and Space Administration, Navy and ESSA-Weather Bureau. Text on p. 2-3 of cover.] \* Paper, 40c. ● Item 208-B-1  
L.C. card 67-62459 C 52.2 : W 37/2

FAMILY SERVICES BUREAU, Health, Education, and Welfare Dept.  
Washington, D.C. 20201

- 15233 Public assistance, costs of State and local administration, services, and training, fiscal year 1966. Mar. 2, 1967. [13] p. oblong 8° (Division of Research.) [Issued with perforations.] † FS 14.202 : P 96/7/966

FARMER COOPERATIVE SERVICE, Agriculture Dept.  
Washington, D.C. 20250

## Educational circular.

- 15234 32. Organizing and conducting cooperatives' annual meetings. [July 1967.] cover title, iv+60 p. il. oblong 24° [Supersedes FCS circular 22, Making the most of your co-op annual meeting. Text on p. 2 of cover.] † ● Item 64 A 89.4/2 : 32

## General report.

- 15235 142. Inventory control and valuation practices of local cooperative grain elevators [with list of other publications available; by Richard M. Ackley]. [July 1967.] vi+16+[1] p. il. 4° † ● Item 65-A A 89.11 : 142  
L.C. card Agr 67-319

ΦFor Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

**FEDERAL AVIATION ADMINISTRATION, Transportation Dept.  
Washington, D.C. 20553**

- 15236 Aircraft specifications. Apr. 1967. cover title, [2498] p. il. 4° [Consolidated reprint contains all current aircraft specifications and type certificate data sheets issued by FAA through Mar. 1967, including 65 supplements. Includes alphabetical index dated Jan. 1, 1967, and aircraft listing dated July 1, 1949. Issued in looseleaf form.] \* Paper, \$20.00 (including monthly supplements), \$5.00 additional for foreign mailing. ● Item 431-C-2 TD 4.15:967

Federal aviation regulations. [Issued in looseleaf form.] ● Item 431-C-13 TD 4.6:(nos.)

- 15237 47. Aircraft registration. [Revised May 1, 1966.] [1967.] cover title, [18] p. 4° [Consolidated reprint incorporating Changes 1-3.] \* Paper, 25c.  
15238 pt. 77. Objects affecting navigable airspace. Revised May 1, 1965. [1967.] cover title, [40] p. il. 4° [Consolidated reprint incorporates Changes 1 and 2. \* Paper, 35c.

**FEDERAL CREDIT UNIONS BUREAU, Health, Education, and Welfare  
Dept., Washington, D.C. 20201**

- 15239 Accounting manual for Federal credit unions [new and revised pages]. [Aug. 1967.] [38] p. 4° [Issued in looseleaf form.] † ● Item 526-B FS 3.306/2: Ac 2/rev.pages

**FEDERAL HOME LOAN BANK BOARD  
Washington, D.C. 20552**

- 15240 Federal Savings and Loan Insurance Corporation, financial statements, June 30, 1967. [1967.] [6] p. il. narrow 8° † FHL 1.2: F 31/2/967-2  
15241 Nonfarm mortgage investments of life insurance companies, 1966. [Aug. 1967.] cover title, 8 p. il. ([Data Management Division.]) † L.C. card 51-16791 FHL 1.18: 966  
15242 Rules and regulations for Federal savings and loan system, Mar. 1, 1966, changes; pamphlet inserts 3. [1967.] [57] leaves. (Office of General Counsel.) [Issued with perforations. Covers amendments through July 7, 1967.] † FHL 1.6: Sa 9/966/insert 3

**FEDERAL MARITIME COMMISSION  
Washington, D.C. 20573**

- 15243 Alaska trade study, regulatory staff analysis [with bibliography]; prepared by Bureau of Domestic Regulation. July 1967. vi+[163] p. il. 4° \* Paper, \$1.25. ● Item 432-L-1 L.C. card 67-62440 FMC 1.2: A1 1 s  
15244 Decisions of Federal Maritime Commission: v. 9, May 1965-June 1966. 1967. xiv+[1]+623 p. \* Cloth, \$2.75. ● Item 233-A L.C. card 42-49992 FMC 1.10: 9

**FEDERAL POWER COMMISSION  
Washington, D.C. 20426**

National electric rate book, rate schedules for electric service in communities of 2,500 population or more, residential, commercial, and industrial services. [Issued with perforations.]

NOTE.—The complete rate book is made up of separate publications, each representing a State. They are sold on subscription basis by the Superintendent of Documents, \$8.00 a year, \$3.00 additional for foreign mailing; single copy, 25c.

- 15245 National electric rate book: Illinois. May 1967. [2]+30 p. 4° [Issued with perforations. Supersedes issue of May 1966.] ● Item 437-A-11 FP 1.18: II 6/967

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

- 15246 — Massachusetts. June 1967. [2]+34 p. 4° [Issued with perforations. Supersedes issue of Sept. 1966.] ● Item 437-A-19 FP 1.18: M 38/967
- 15247 Regulations under Natural gas act (with approval forms) in effect Aug. 1, 1967. 1967. xiii+[105] p. ([FPC A-96.]) [Issued in looseleaf form.] \* Paper, \$2.00 (including basic manual and supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 439 L.C. card 56-61091 FP 1.7: G 21/3/967

**FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS**  
Washington, D.C. 20551

- 15248 Commodity money, remarks of George W. Mitchell, member, Board of Governors of Federal Reserve System at Graduate School of Banking, University of Wisconsin, Madison, Wis., Aug. 21, 1967. [1967.] [1]+12 leaves, 4° † FR 1.23: M 69/41
- 15249 Ideology and inflation, implications of price and wage trends for national stabilization policies, remarks by Andrew F. Brimmer, Member, Board of Governors of Federal Reserve System at 1967 session of Pacific Coast Banking School at University of Washington, Seattle, Wash., Aug. 23, 1967. [2]+2-23 p. 4° † FR 1.23: B 77/17
- 15250 Rules of practice for formal hearings, as revised effective Aug. 1, 1967. [1967.] [4]+22 p. [Code of Federal regulations, title 12, sec. 263.] † FR 1.8/2: H 35

**FEDERAL SUPPLY SERVICE, General Services Administration**  
Washington, D.C. 20405

- 15251 Federal specifications. ● Item 563 GS 2.8:

NOTE.—These specifications are now so completely covered by the Index of Federal specifications, standards, and handbooks with cumulative monthly supplements, that listing in the Monthly Catalog of United States Government Publications represents unnecessary and wasteful duplication of effort. For that reason they will no longer be listed.

Complete information on the Index of Federal specifications will be found in the Appendix to the February 1967 issue of the Monthly Catalog under Entry number 3409 and in the April 1967 issue under Entry number 6335.

Federal test method standards. [Issued in looseleaf form.] ● Item 563

NOTE.—Federal test method standards may be purchased from the General Services Administration, Specifications Activity, Printed Materials Supply Division, Building 197, Naval Weapons Plant, Washington, D.C. 20407. *All checks and money orders should be made payable to the Treasurer of the United States.* Single copies are available without charge at the nearest GSA regional office.

- 15252 228. Cable and wire, insulated, methods of testing. Apr. 14, 1967. cover title, [249] p. il. 4° [Supersedes Fed. Spec. J-C-98, Sept. 11, 1951.] † GS 2.8/7: 228

**FEDERAL WATER POLLUTION CONTROL ADMINISTRATION,**  
Interior Dept., Washington, D.C. 20242

- 15253 Conference in matter of pollution of interstate and intrastate waters of upper Mississippi River and its tributaries, Minn. and Wis., proceedings, 2d session, Minneapolis, Minn., Feb. 28, Mar. 1 and 20, 1967. [1967.] † ● Item 473-A-1 v. 3. cover title, [6]+3-222 p. 4° L.C. card 67-62206 I 67.2: M 69I/v.3
- 15254 Inventory of research in water pollution and other related fields, Columbia Basin and Pacific Coast States; compiled by Lyman J. Nielson. Nov. 1966. [3]+viii+135 p. 4° (Pacific Northwest Water Laboratory, Corvallis, Oreg.) † L.C. card 67-62466 I 67.2: C 72

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 35



# GOVERNMENT PUBLICATIONS

## FISH AND WILDLIFE SERVICE, Interior Dept. Washington, D.C. 20240

### Conservation note.

- 15255 13. New England's commercial fisheries. [Dec. 1962.] [8] p. il. 4° [Issued with perforations.] † I 49.36/2:13

### Fishery leaflet. (Bureau of Commercial Fisheries.)

- 15256 600. North Atlantic trawl nets [with list of references]; by Robert A. Bruce. Aug. 1967. lii+23 p. il. 4° † I 49.28:600

### Fishery market development series. (Bureau of Commercial Fisheries.)

- 15257 5. Fish and shellfish buying guide and quantity recipes for type A school lunches [with list of publications on fish cookery; prepared by home economists of Bureau of Commercial Fisheries, in cooperation with School Lunch Division, Consumer and Marketing Service and Human Nutrition Research Division, Agricultural Research Service, Department of Agriculture]. [July 1967.] [106] cards, il. each 5 x 8 in. [Includes title cards, separator tab cards A-I, with accompanying recipe cards with text on reverse of most cards.] \* Paper, \$2.50 per set. ● Item 611-F I 49.49/2:5

- 15258 Questions and answers on Federal baiting regulations: Waterfowl. [1967.] [6] p. narrow 8° ([Bureau of Sport Fisheries and Wildlife.]) † ● Item 612 I 49.2:W 29/6

### Refuge leaflets. (Bureau of Sport Fisheries and Wildlife.) †

I 49.44: (nos.)

- 15259 12. National Bison Range. [1955, revised 1967.] [1967.] [4] p. il. 4°  
15260 56. Monte Vista National Wildlife Refuge. June 1967. 4 p. il. 4°  
15261 98. Ruby Lake National Wildlife Refuge. [July 1967.] 6 p. il. 4°  
15262 104. Birds of Klamath Basin national wildlife refuges. [June 1967.] [8] p. narrow 8°  
15263 119. Birds of Waubay National Wildlife Refuge. [June 1967.] 4 p. 4°  
15264 138. Birds of Tamarac National Wildlife Refuge. June 1967. 4 p. 4°  
15265 536. Browns Park National Wildlife Refuge. [May 1967.] [2] p. il. 4°

- 15266 Report of Bureau of Commercial Fisheries for calendar year 1965. 1967. viii+127 p. il. † ● Item 613 L.C. card 62-61454 I 49.1/2:965

### Resource publication.

- 15267 44. Underwater and floating-leaved plants of United States and Canada; by Nell Hotchkiss. May 1967. vii+124 p. il. 4° (Bureau of Sport Fisheries and Wildlife.) [Text on p. 2 of cover.] \* Paper, 65c. ● Item 613-B L.C. card 67-62454 I 49.66:44

### Special scientific report: Wildlife (series). (Bureau of Sport Fisheries and Wildlife.)

- 15268 105. Factors influencing waterfowl counts on aerial surveys, 1961-66 [with list of references]; by R. Kahler Martinson and Charles F. Kaczynski. June 1967. iv+78 p. il. 4° \* Paper, 45c. ● Item 614-C I 49.15/3:105

## FLIGHT STANDARDS SERVICE, Transportation Dept. Washington, D.C. 20553

- 15269 General aviation inspection aids, summary. 1967. cover title, vi+178 p. 4° ([Advisory circular AC 20-7D.]) [Text and illustration on p. 2-4 of cover. Issued with perforations.] \* Paper, \$1.50 a yr. (including basic manual and 11 monthly supplements); 50c. additional for foreign mailing. ● Item 431-C-6 TD 4.409:967

## FOOD AND DRUG ADMINISTRATION, Health, Education, and Welfare Dept., Washington, D.C. 20201

- 15270 BDAC [Bureau of Drug Abuse Control], a review, Mar. 1966 through Apr. 1967. [1967.] [18] p. il. 4° † ● Item 475 FS 13.102:D 84/7  
15271 Drugs of abuse. [1967.] [8] p. il. 4° [Reprint from FDA papers, July-Aug. 1967. Illustrations are colored.] \* Paper, 20c. FS 13.128/a:D 842

### FDA publication.

- 15272 49. Citizenship and strawberry jam; [presented by Educational Services Staff]. [1967.] [4] p. 4° (FDA's life protection series.) [Prepared especially for 4-H clubs.] \* Paper, 5c. ● Item 475-A FS 13.111:49

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 15273 LSD, the false illusion. [1967.] [12] p. il. 4° [Reprint from FDA papers, July-Aug. 1967.] \* Paper, 15c. FS 13.128/a: L 959
- 15274 Pesticides, report on residues in food; [by R. E. Duggan and Keith Dawson]. [1967.] [1]+8+[2] p. il. 4° [Reprint from FDA papers, June 1967. Some illustrations are colored.] \* Paper, 25c. FS 13.128/a: P 439
- 15275 Safety of large volume parenteral solutions, national symposium, proceedings [Washington, D.C., July 28-29, 1966; with lists of references]. [1967.] cover title, iii+103 p. il. 4° † ● Item 475  
L.C. card 67-62473 FS 13.102: P 21

**FOREST SERVICE, Agriculture Dept.  
Washington, D.C. 20250**

- 15276 Cooperative forest fire control, program financing, Federal, State and private funds, under sec. 2, Clarke-McNary Law, act of June 7, 1924 (43 Stat. 653), cooperative financing expenditures f.y. 1966, allotments f.y. 1967. [1967.] 1 p. oblong 8° (Division of Cooperative Forest Fire Control, State and Private Forestry Cooperation.) †  
A 13.2: F 51/49/966-67
- 15277 Forest fire statistics, [calendar year] 1966; prepared by Division of Cooperative Forest Fire Control. [1967.] cover title, iv+52 p. il. 4° †  
L.C. card 53-63341 A 13.32/2: 966
- Forest pest leaflet.
- 15278 23. Texas leaf-cutting ant [with list of references]; by Wm. H. Bennett. June 1958, revised July 1967. [1967.] 4 p. il. † ● item 82-A A 13.52: 23/2
- 15279 National forests in Pacific Northwest, 1966. [1967.] cover title, 24 p. il. 4° † P.O. Box 3623, Portland, Oreg. 97208 A 13.13/2: P 11/966
- 15280 National forests in profile, 1966 yearbook, Intermountain Region, Forest Service, Department of Agriculture, Ogden, Utah. [1967.] cover title, [24] p. il. 4° †  
L.C. card 63-60296 A 13.57: 966
- Research note FPL-(series). (Forest Products Laboratory, Madison, Wis.) † A 13.79: FPL-(nos.)
- 15281 FPL-02. Comparison of wood preservatives in stake tests (1967 progress report); [by J. O. Blew.] May 1967. cover title, S6+[1] p. 4° [Text on p. 2 of cover.]  
L.C. card 64-60444
- 15282 FPL-0165. Bleaching wood [with bibliography]. June 1967. cover title, [10]+1 p. 4° [Slight revision of Report 1705, under same title, originally written in 1948 by Leslie E. Downs. Abstract on p. 2 of cover.]
- Research note SE-(series). (Southeastern Forest Experiment Station, Asheville, N.C.) † A 13.79: SE-(nos.)
- 15283 SE-78. Two new sucking insect pests of seed in southern pine seed orchards; [by Gary L. DeBarr]. July 1967. [3] p. il. 4°
- 15284 SE-79. Recreation use estimation on Forest Service lands in United States [with list of literature cited; by George A. James]. July 1967. [8] p. il. 4°
- 15285 SE-80. Operational summer planting of slash pine; [by Robert P. Schultz and Lawrence P. White]. July 1967. [3] p. 4°
- 15286 SE-81. Five-year trend in price of pulpwood in Southeast, 1962-66; [by Richard L. Welch]. Aug. 1967. 2 p. 4°
- Research paper NOR-(series). (Northern Forest Experiment Station, Juneau, Alaska.)
- 15287 NOR-3. Photo identification guide for land and forest types of Interior Alaska; by Karl M. Hegg. 1967. cover title, i+55+[1] p. il. map. 4° [Map is colored.] † A 13.78: NOR-3
- Research paper SE-(series). (Southeastern Forest Experiment Station, Asheville, N.C.) † A 13.78: SE-(nos.)
- 15288 SE-26. Reproducible system for evaluating forest fire retardants; by R. W. Johansen. Apr. 1967. cover title, 9 p. il. 4° [Accompanied by abstract cards. Page 9 printed on inside of back cover.]
- 15289 SE-27. Density and height growth in natural slash pine; by Arthur B. Collins III. May 1967. cover title, 8 p. il. 4° [Accompanied by abstract cards.]

# GOVERNMENT PUBLICATIONS

Resource bulletin SE--(series). (Southeastern Forest Experiment Station, Asheville, N.C.)

- 15290 SE-8. Virginia's timber; by Herbert A. Knight and Joe P. McClure. 1967. iv+47 p. il. 4° †  
L.C. card 67-62463 A 13.80 : SE-8
- 15291 Umatilla National Forest, multiple use highlights, 1966. [1967.] cover title, 12 p. il. 4° † A 13.13/2 : Um 1/966

## GENERAL ACCOUNTING OFFICE

Washington, D.C. 20548

- 15292 Decisions of Comptroller General, v. 45, July 1, 1965-June 30, 1966. [1967.] xxxi+1035 p. \* Cloth, \$4.00. • Item 644  
L.C. card 22-24145 GA 1.5 : 45
- 15293 Report to Congress of United States: Balance-of-payments aspects of barter contracts for acquisition of industrial diamonds for stockpile, Department of Agriculture, Department of State; by Comptroller General of United States. Aug. 1967. cover title, [3] leaves+30 p. 4° † Paper, \$1.00.  
L.C. card 67-62308 GA 1.13 : D 54
- 15294 ——— Compilation of General Accounting Office findings and recommendations for improving Government operations, fiscal year 1966; by Comptroller General of United States. Aug. 1967. cover title, [19]+164 p. 4° † Paper, \$1.00.  
L.C. card 62-61660 GA 1.13 : G 74/2/966
- 15295 ——— Examination of financial statements of Federal Home Loan Bank Board for year ended Dec. 31, 1966; by Comptroller General of United States. Aug. 1967. cover title, [2] leaves+20 p. 4° † Paper, \$1.00.  
GA 1.13 : F 31/19/966
- 15296 ——— Examination of financial statements of southeastern Federal power program, fiscal year 1966, Department of Interior and Department of Army; by Comptroller General of United States. Aug. 1967. cover title, 4+[1] leaves+23 p. 4° † Paper, \$1.00.  
L.C. card 67-62469 GA 1.13 : So 8/4/966
- 15297 ——— Followup review of cotton inventory management by Commodity Credit Corporation, Department of Agriculture; by Comptroller General of United States. Aug. 1967. cover title, [5]+35 p. 4° † Paper, \$1.00.  
L.C. card 67-62307 GA 1.13 : C 82/9
- 15298 ——— Need for revision of Foreign Service travel regulations to achieve reduction in per diem costs, Department of State; by Comptroller General of United States. Aug. 1967. cover title, [3] leaves+22 p. 4° † Paper, \$1.00.  
L.C. card 67-62309 GA 1.13 : T 69/7
- 15299 ——— Problems associated with location and design of segments of Interstate Highway System in major metropolitan areas, Federal Highway Administration, Department of Transportation; by Comptroller General of United States. Aug. 1967. cover title, [3] leaves+56 p. il. 4° † Paper, \$1.00.  
L.C. card 67-62320 GA 1.13 : H 53/28
- 15300 ——— Review of Federal participation in cost of airport projects involving donated land, Federal Aviation Administration, Department of Transportation; by Comptroller General of United States. Aug. 1967. cover title, [3] leaves+21 p. 4° † Paper, \$1.00.  
L.C. card 67-62305 GA 1.13 : Ai 7/84
- 15301 ——— Savings from more economical use of communication facilities between Alaska and United States mainland, Department of Air Force, Alaska communication system; by Comptroller General of United States. Aug. 1967. cover title, [5]+25 p. 4° † Paper, \$1.00.  
L.C. card 67-62304 GA 1.13 : Al 1s/6

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15302 — Survey of Agency for International Development's management and operation of commercial import program for Viet Nam, Department of State, Agency for International Development, Department of Defense; by Comptroller General of United States. Aug. 1967. cover title, [5] leaves+126 p. 4° † Paper, \$1.00.

L.C. card 67-62321

GA 1.13: V 67/4

**GENERAL SERVICES ADMINISTRATION**  
Washington, D.C. 20405

- 15303 Basic laws and authorities of General Services Administration GSA handbook [revised pages as amended to May 1967]. [1967.] cover title, iii + [92] p. (GSL P 5000.4A.) [Issued with perforations.] \* Paper, 45c.  
● Item 560 GS 1.5: G 28/966/rev. pages

**GEOLOGICAL SURVEY, Interior Dept.**  
Washington, D.C. 20405

Bulletins. ● Item 620

I 19.3: (nos.)

- 15304 1227. Geology of Mount Willson quadrangle, western San Juan Mountains, Colo. [with list of references cited]; by Calvin S. Bromfield. 1967. vi+100 p. ll. 6 pl. in pocket. [Prepared on behalf of U.S. Atomic Energy Commission. Bedded sequence of volcanic and sedimentary rocks more than 5,000 feet thick has been intruded by stocks and laccoliths. One plate is colored.] \* Paper, \$1.25.  
L.C. card GS 67-177
- 15305 1237. Geology and ore deposits of Phillipsburg district, Granite County, Mont. [with list of references cited]; by William C. Prinz. 1967. v+66 p. ll. [Study of silver-zinc and manganese deposits of Nation's only battery-grade manganese dioxide district. Issued in portfolio with 8 plates.] \* Stiff board, \$4.75.  
L.C. card GS 67-214
- 15306 1242-E. Coal resources of Cape Lisburne-Colville River region, Alaska [with list of references cited; by Farrell F. Barnes]. 1967. iii+37 p. ll. 1 pl. in pocket. [Evaluation based on data obtained during investigations of petroleum possibilities of Naval Petroleum Reserve no. 4 and adjoining areas in 1923-26 and 1944-53. Contributions to economic geology. Plate is colored.] \* Paper, 60c.

**Circular.**

- 15307 528. Reports and maps of Geological Survey released only in open files, 1966; by Betsy A. Weld, Margaret S. Griffin, and George W. Brett. 1967. [2]+14 p. 4° † ● Item 620-A  
L.C. card GS 52-152 I 19.4/2: 528

**Professional papers.** ● Item 624

I 19.16: (nos.)

- 15308 520. Geology and uranium deposits of Ralston Buttes District, Jefferson County, Colo. [with list of references cited]; by Douglas M. Sheridan, Charles H. Maxwell, and Arden L. Albee; with sections on Paleozoic and younger sedimentary rocks; by Richard Van Horn. 1967. v+121 p. [Prepared partly on behalf of Atomic Energy Commission. Comprehensive study of geology of major district of productive uranium veins on east flank of Front Range west of Denver. Issued in portfolio with 8 pl. 1 tab. Plates are colored.] \* Paper, \$5.75.  
L.C. card GS 67-293
- 15309 554-B. Big Snowy and Amedeen groups and Mississippian-Pennsylvanian boundary in Montana [with list of references cited]; by Edwin K. Maughan and Albert E. Roberts. 1967. iii+27 p. ll. 4 pl. in pocket, 4° [Study of Upper Mississippian and Pennsylvanian sedimentary formations with special emphasis on their regional correlation, variation in lithology, and age assignments. Shorter contributions to general geology. One plate is colored.] \* Paper, \$1.50.
- 15310 558. Ore Knob copper deposit, N.C., and other massive sulfide deposits of Appalachians [with list of references cited]; by Arthur R. Kinkel, Jr. 1967. iv+58 p. ll. 3 pl. in pocket, 4° [Effects of dynamic and thermal metamorphism on primary ore textures at Ore Knob are described, and similar Appalachian deposits are compared.] \* Paper, \$1.25.  
L.C. card GS 67-252
- 15311 581-A. Seismic reflection profiles along drill holes on Continental margin off Florida [with list of references cited]; by K.O. Emery and E. F. K. Zarudski. 1967. vii+8 p. ll. 4° [Prepared in cooperation with Woods Hole Oceanographic Institution and Joint Oceanographic Institutions' Deep Earth Sampling Program. Study of relation of continuous seismic reflection profiles across continental shelf, Florida-Hatteras slope, and Blake Plateau with stratigraphy of JOIDES drill-hole samples. Drilling on continental margin off Florida.] \* Paper, 20c.

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Water-supply papers. ● Item 625

I 19.13:(nos.)

- 15312 1817-C. Determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography [with list of references cited]; by Donald F. Goerlitz and William L. Lamar. 1967. iii+21 p. il. [Identification, measurement, and stability of phenoxy acid herbicides in water samples. Organic substances in water.] \* Paper, 15c.
- 15313 1827-A. Form and stability of aluminum hydroxide complexes in dilute solution [with list of literature cited]; by J. D. Hem and C. E. Roberson. 1967. iv+55 p. il. [Determination of effect of pH on aluminum solubility and determination of composition of complexes most likely to occur in natural water. Chemistry of aluminum in natural water.] \* Paper, 25c.
- 15314 1840-B. Floods of June 1964 in northwestern Montana [with list of selected references]; by F. C. Boner and Frank Stermitz. 1967. viii+242 p. il. 1 pl. in pocket. [Prepared in cooperation with Montana and agencies of Federal Government. Floods of 1964 in United States.] \* Paper, \$1.50.
- 15315 1851. Surface-water hydrology of California coastal basins between San Francisco Bay and Eel River [with list of selected references]; by S. E. Rantz and T. H. Thompson. 1967. iv+60 p. il. 1 pl. in pocket. [Prepared in cooperation with California Department of Water Resources.] \* Paper, 75c.  
L.C. card GS 67-264

HEALTH, EDUCATION, AND WELFARE DEPARTMENT

Washington, D.C. 20201

- 15316 Programs for the handicapped. [Irregular. Prior to Aug. 14, 1967 issue, entitled Mental health report.] † FS 1.23/:(nos.)  
67-11 Aug. 14, 1967—

HOUSING AND URBAN DEVELOPMENT DEPARTMENT

Washington, D.C. 20410

HUD SP/MP (series).

- 15317 54. Challenge of our cities; [by] Hubert H. Humphrey, Vice President of United States. [1967.] cover title, 18 p. il. [Excerpts of addresses to Congress of Cities in Boston, Aug. 7, 1967, and national convention of National Association of Counties in Detroit, Aug. 8, 1967.] † ● Item 582-H  
HH 1.28:54

IMMIGRATION AND NATURALIZATION SERVICE, Justice Dept.

Washington, D.C. 20536

- 15318 Authority of officers of Immigration and Naturalization Service to make arrests; [prepared by General Counsel of Immigration and Naturalization Service]. [Revised] May 1967. [1967.] cover title, 15 p. 12° (M-69.) †  
● Item 725-A J 21.6/3:Ar 6
- 15319 Border patrol, its origin and its work † [1967.] cover title, ii+14 p. il. narrow 8° (M-157 (1967).) † ● Item 725 J 21.2:B 64/967
- 15320 Federal textbook on citizenship: Our Constitution and Government, home study course [for student]. Revised 1967. [1967.] viii+156 p. il. 4° (M-39.) [Last page left blank for notes.] \* Paper, \$1.00. ● Item 724  
L.C. card 43-50806 J 21.9:C 76/4/967

INDIAN AFFAIRS BUREAU, Interior Dept.

Washington, D.C. 20240

- 15321 Governing bodies of Indian groups under Federal supervision. [Jan. 1966.] [1]+20 p. † I 20.2:G 74/3
- 15322 Indian-State relations in their historical perspective, [address], by Robert L. Bennett, Commissioner of Indian Affairs, at annual Founders Day Banquet of State Historical Society of Wisconsin, Madison, Wis., Jan. 28, 1967. [1967.] 20 leaves, 4° † I 20.27:B 43

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

## INTERDEPARTMENTAL COMMITTEE ON STATUS OF WOMEN

- 15323 Report on progress in 1966 on status of women, 3d annual report of Interdepartmental Committee and Citizens' Advisory Council on Status of Women, Dec. [31], 1966. [1967.] [3] leaves+111 p. 4° \* Paper, 70c.  
● Item 1067-1  
L.C. card 66-62626

Y 3.In8/21 : 1/966

INTERIOR DEPARTMENT  
Washington, D.C. 20240

NOTE.—Requests to the Interior Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 15324 Excerpts from remarks by Secretary of Interior Stewart L. Udall at dedication of Clair Engle desalting plant, San Diego, Calif. Aug. 19, 1967. [1967.] 5 leaves, 4° † I 1.68: Ud 1/41
- 15325 Natural resources of California. [1967.] 84 p. il. 4° (Office of Information.) [Includes list of Other Interior Department publications of special interest.] \* Paper, 60c. ● Item 603-C  
L.C. card 63-62363 I 1.91: C 12/967
- [Saline water] research and development progress reports. (Office of Saline Water.) ● Item 604-A-1 I 1.88:(nos.)
- 15326 225. Investigation of corrosion in hot sea water in experimental loop apparatus; by F. W. Fink, E. L. White, and W. K. Boyd, Battelle Memorial Institute, Columbus, Ohio. Dec. 1966 [published 1967]. [4]+53 p. il. 4° ([Contract 14-01-0001-353.]) \* Paper, 40c.
- 15327 241. 4th annual report, Brackish water conversion demonstration plant, Webster, S. Dak., covering period July 1, 1965-June 30, 1966; by Mason-Rust, Louisville, Ky. [1967.] vi+[4]+108+12 p. il. 4° [Series indicated on title page as Saline water conversion progress report.] \* Paper, 65c.  
L.C. card 66-62217
- 15328 250. Potential contribution of desalting to future water supply in Texas; by Southwest Research Institute, Houston and Texas Water Development Board. Nov. 1966 [published 1967.] ix+[318] p. il. 4° ([Contract 14-01-0001-603.]) [Errata 1 p. oblong 24° was issued also.] \* Paper, \$2.00.  
L.C. card 67-62056
- 15329 251. Parametric cost studies of multistage flash process [with list of references]; by F. deWinter, S. E. Sadek, and J. M. Reynolds, Dynatech Corporation, Cambridge, Mass. Mar. 1967. cover title, [1]+xii+151 p. il. 4° ([Contract 14-01-0001-681.]) \* Paper, \$1.00.
- 15330 252. Conceptual design study of one million gallon per day MSM desalination plant-replacement for demonstration plant no. 2 at Point Loma, San Diego, Calif.; [by] Fluor Corporation, Ltd., Los Angeles, Calif. Apr. 1967. [2]+lv+[126] p. 21 pl. 4° ([Contract 14-01-0001-414.]) \* Paper, \$2.50.
- 15331 255. Permeability requirements of membranes for use in desalination by reverse osmosis [with list of literature cited]; by H. E. Podall, July 1957. [1967.] [2]+43 p. il. 4° \* Paper, 30c.
- 15332 259. Transport of electrolytes through membrane systems, 2d annual report; by Milton S. Mintz and Robert E. Lacey, Southern Research Institute, Birmingham, Ala. [1967.] [2]+vii+42 p. il. 4° ([Contract 14-01-0001-464.]) \* Paper, 35c.
- 15333 262. Behavior of water in various States; by J. A. Schuffe [and others]. July 1967. [2]+49 p. il. 4° [Grant 14-01-0001-610.] \* Paper, 35c.  
L.C. card 67-62457

INTERNAL REVENUE SERVICE, Treasury Dept.  
Washington, D.C. 20224

- 15334 Looseleaf regulations system: Service 4, Excise taxes, transmittal 50. July 14, 1967. [11] p. 4° ● Item 961 T 22.19/3 : 4/trans.50

NOTE.—Service 4 consists of pts. 40-42, 44-50, and 146-150 of title 26 of Code of Federal Regulations. It is sold on a subscription basis by the Superintendent of Documents, \$8.00 (including basic material and supplements issued irregularly for approximately 3 years); \$3.00 additional for foreign mailing.

- 15335 — Service 5, Procedure and administration, transmittal 36. July 14, 1967. [20] p. 4° ● Item 961 T 22.19/3 : 5/trans.36

NOTE.—Service 5 consists of pts. 152, 301-303 and 601 of title 26 of Code of Federal Regulations. It is sold on a subscription basis by the Superintendent of Documents, \$4.50 (including basic material and supplements issued irregularly for approximately 3 years); \$1.00 additional for foreign mailing.

# GOVERNMENT PUBLICATIONS

- 15336 Statistics of income, 1962: supplemental report, Personal wealth estimated from estate tax returns filed during calendar year 1963; prepared by Statistics Division. [1967.] vii+103 p. il. 4° (Publication 482 (7-67).) \* Paper, 65c. ● Item 964  
L.C. card 67-62455 T 22.35/2: W 37/962
- 15337 Statistics of income, 1964, preliminary: Corporation income tax returns with accounting periods ended July 1964-June 1965. [1967.] [2]+ii+41 p. il. 4° (Publication 159 (7-67).) \* Paper, 25c. ● Item 964  
L.C. card 20-26969 T 22.35/3: C 81/964
- 15338 Tobacco tax guide, transmittal 18; July 17, 1967. [1967.] [40] p. 4° Publication 464.) [Issued in looseleaf form.] \* Paper, \$3.50 (including basic guide and supplementary material for an indefinite period); \$1.00 additional for foreign mailing. ● Item 956-A T 22.19/5: 964/trans.18

## INTERNATIONAL COMMERCE BUREAU, Commerce Dept. Washington, D.C. 20230

- 15339 Semiannual checklist, Bureau of International Commerce, international business publications. July 1967. 40 p. il. 4° [Includes market share reports.] † ● Item 231-D C 42.15: C 41/967-2
- 15340 Sources of credit information on foreign firms, for United States firms trading, investing, or manufacturing abroad. 1967. iv+108 p. \* Paper, 35c. ● Item 231-A  
L.C. card 67-62451 C 42.2: C 86/967

## INTERNATIONAL DEVELOPMENT AGENCY, State Dept. Washington, D.C. 20523

- 15341 Information guide, economic and technical information on typical industries. [1967.] 7 p. 4° (Office of Private Resources.) † S 18.8: In 2

## JOINT CHIEFS OF STAFF, Defense Dept. Washington, D.C. 20301

- 15342 National Security Seminar: Presentation outline and reading list, 1967-68, [gray team]. July 1967. xvi+537 p. il. 4° (Industrial College of Armed Forces.) [Some pages are left blank to be used for notes. Issued with perforations.] † ● Item 315-A D 5.9/2: 967-68

## JOINT PUBLICATIONS RESEARCH SERVICE Washington, D.C. 20443

NOTE.—Titles of JPRS serial reports listed below were issued during the month, but were not cataloged separately.

- 15343-1 Communist Chinese scientific abstracts: Agricultural science and technology, no. 50; JPRS 42358.
- 15343-2 Communist Chinese scientific abstracts: Bio-medical sciences, nos. 224-239; JPRS 42047, 42158, 42185, 42223, 42261, 42270, 42299, 42315, 42324, 42340, 42352, 42357, 42393, 42395, 42398, 42413.
- 15343-3 Communist Chinese scientific abstracts: Chemistry, nos. 80-84; JPRS 42048, 42111, 42149, 42187, 42392.
- 15343-3A Communist Chinese scientific abstracts: Earth sciences, nos. 119-120; JPRS 42150, 42188.
- 15343-4 Communist Chinese scientific abstracts: Electronics and electrical engineering, no. 91; JPRS 42353.
- 15343-5 Communist Chinese scientific abstracts: Engineering and equipment, nos. 107-110; JPRS 42049, 42262, 42300, 42321.
- 15343-6 Communist Chinese scientific abstracts: General science, nos. 30-38; JPRS 42050, 42100, 42112, 42183, 42226, 42239, 42316, 42356, 42418.
- 15343-7 Communist Chinese scientific abstracts: Materials science and metallurgy, no. 29; JPRS 42354.
- 15343-8 Communist Chinese scientific abstracts: Physics and mathematics, no. 111; JPRS 42355.
- 15343-9 East European scientific abstracts: Bio-medical sciences, no. 81; JPRS 42257.
- 15343-10 East European scientific abstracts: Chemistry, no. 92; JPRS 42442.
- 15343-11 East European scientific abstracts: Cybernetics, computers, and automation technology, no. 28; JPRS 42043.
- 15343-12 East European scientific abstracts: Earth sciences, nos. 57-58; JPRS 42100, 42441.

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

- 15343-13 East European scientific abstracts: Electronics and electrical engineering, nos. 36-37; JPRS 42107, 42444.
- 15343-14 East European scientific abstracts: Engineering and equipment, no. 35; JPRS 42108.
- 15343-15 East European scientific abstracts: Materials science and metallurgy, no. 15; JPRS 42063.
- 15343-16 East European scientific abstracts: Physics and mathematics, no. 82; JPRS 42144.
- 15343-17 Economic and geographic translations on Latin America, nos. 84-89; JPRS 42117, 42132, 42160, 42192, 42348, 42474.
- 15343-18 Herald of communications, no. 6, 1967; JPRS 42105.
- 15343-19 Index of La Stampa and La Stampa sera, nos. 378-381; JPRS 42234, 42245, 42319, 42400.
- 15343-20 Index of Le Monde, no. 85; JPRS 42331.
- 15343-21 Military information on Eastern Europe, nos. 164-168; JPRS 42044, 42138, 42186, 42268, 42334.
- 15343-22 Organization, activities and personnel of East European academies of sciences, nos. 11-15; JPRS 42172, 42218, 42281, 42384, 42416.
- 15343-23 Political translations on Eastern Europe, no. 279-288; JPRS 42082, 42125, 42169, 42213, 42242, 42266, 42274, 42323, 42408, 42448.
- 15343-24 Press information report on Albania, nos. 223-225; JPRS 42114, 42236, 42403.
- 15343-25 Press information report on Iran, nos. 28-29; JPRS 42141, 42170.
- 15343-26 Problems in information transmission, v. 3, no. 2; JPRS 42439.
- 15343-27 Sociological translations on Eastern Europe, nos. 461-466; JPRS 42083, 42095, 42173, 42229, 42277, 42431.
- 15343-28 Soviet military translations, nos. 391-398; JPRS 42109, 42202, 42289, 42310, 42336, 42344, 42362, 42464.
- 15343-29 Soviet press materials on arms control and disarmament, no. 12; JPRS 42116.
- 15343-30 Soviet public health, USSR, no. 7, 1967; JPRS 42204.
- 15343-31 Translations from Hoc tap (Studies), North Vietnam, no. 6, 1967; JPRS 42180.
- 15343-32 Translations from Hung-ch'i (Red flag), nos. 63-65; JPRS 42140, 42168, 42269.
- 15343-33 Translations from Kommunist, nos. 9-10, 1967; JPRS 42134, 42314.
- 15343-34 Translations on Africa, nos. 614-629; JPRS 42080, 42118, 42151, 42184, 42206, 42243, 42302, 42311, 42317, 42342, 42376, 42380, 42387, 42420, 42450, 42456.
- 15343-35 Translations on Communist China: Economic, no. 31; JPRS 42271.
- 15343-36 Translations on Communist China: Political and sociological, nos. 413-421; JPRS 42070, 42097, 42121, 42129, 42171, 42222, 42260, 42349, 42359.
- 15343-37 Translations on Communist China: Science and technology, nos. 391-392; JPRS 42198, 42401.
- 15343-38 Translations on Cuba, nos. 608-615; JPRS 42102, 42142, 42232, 42286, 42313, 42379, 42381, 42472.
- 15343-39 Translations on East European agriculture, forestry, and food industries, nos. 573-581; JPRS 42084, 42166, 42214, 42258, 42282, 42350, 42405, 42411, 42446.
- 15343-40 Translations on East European electronic and precision equipment industries, no. 17; JPRS 42280.
- 15343-41 Translations on East European foreign trade, nos. 347-354; JPRS 42079, 42145, 42195, 42230, 42267, 42332, 42443, 42447.
- 15343-42 Translations on East European machinery industries, nos. 31-33; JPRS 42182, 42259, 42415.
- 15343-43 Translations on East European materials industries, nos. 382-388; JPRS 42085, 42146, 42254, 42278, 42333, 42375, 42410.
- 15343-44 Translations on East European service industries, nos. 548-558; JPRS 42045, 42096, 42147, 42191, 42279, 42329, 42339, 42374, 42406, 42423, 42449.
- 15343-45 Translations on economic organization and management in Eastern Europe, nos. 724-734; JPRS 42064, 42110, 42139, 42167, 42174, 42244, 42283, 42318, 42335, 42389, 42445.
- 15343-46 Translations on International Communist developments, nos. 987-994; JPRS 42099, 42128, 42200, 42285, 42373, 42424, 42468, 42475.
- 15343-47 Translations on Mongolia, nos. 143-144; JPRS 42159, 42308.
- 15343-48 Translations on Near East, nos. 157-186; JPRS 42046, 42051, 42072, 42081, 42098, 42113, 42115, 42127, 42181, 42189, 42208, 42224, 42231, 42247, 42255, 42272, 42275, 42297, 42312, 42327, 42330, 42343, 42347, 42360, 42377, 42414, 42425, 42455, 42459, 42473.
- 15343-49 Translations on North Korea, nos. 54-55; JPRS 42284, 42325.
- 15343-50 Translations on North Vietnam, nos. 218-240; JPRS 42052, 42071, 42101, 42123, 42130, 42131, 42175, 42205, 42207, 42240, 42246, 42253, 42263, 42264, 42326, 42341, 42346, 42385, 42399, 42409, 42421, 42457, 42469.
- 15343-51 Translations on south and east Asia, nos. 162-165; JPRS 42122, 42252, 42301, 42378.
- 15343-52 Translations on Soviet education, nos. 68-70; JPRS 42367, 42432, 42451.
- 15343-53 Translations on USSR agriculture, nos. 213-219; JPRS 42119, 42216, 42364, 42383, 42396, 42438, 42453.
- 15343-54 Translations on USSR communications, no. 87; JPRS 42471.
- 15343-55 Translations on USSR consumer goods and domestic trade, nos. 186-194; JPRS 42073, 42120, 42197, 42292, 42345, 42365, 42407, 42437, 42467.
- 15343-56 Translations on USSR labor, nos. 198-201; JPRS 42135, 42215, 42290, 42363.
- 15343-57 Translations on USSR transportation, nos. 192-194; JPRS 42074, 42196, 42291.
- 15343-58 USSR economy and industry: General information, nos. 144-155; JPRS 42073, 42126, 42133, 42152, 42201, 42225, 42238, 42288, 42309, 42412, 42435, 42461.
- 15343-59 USSR industrial development: Automotive and tractor industry, nos. 54-57; JPRS 42104, 42148, 42328, 42462.
- 15343-60 USSR industrial development: Chemical industry and machinery, nos. 55-58; JPRS 42076, 42136, 42293, 42466.



- 15343-61 USSR industrial development: Construction, construction machinery, and building materials, nos. 97-102; JPRS 42077, 42203, 42217, 42294, 42368, 42434.  
 15343-62 USSR industrial development: Electric power, fuels and related equipment, nos. 63-66; JPRS 42251, 42295, 42369, 42436.  
 15343-63 USSR industrial development: Electronics and precision equipment, nos. 27-29; JPRS 42296, 42370, 42465.  
 15343-64 USSR industrial development: Metallurgy and minerals, nos. 59-64; JPRS 42078, 42199, 42371, 42433, 42452, 42463.  
 15343-65 USSR industrial development: Metal-working equipment, no. 217; JPRS 42372.  
 15343-66 USSR international economic relations, nos. 98-101; JPRS 42137, 42157, 42320, 42366.  
 15343-67 USSR scientific abstracts: Chemistry, no. 44; JPRS 42143.  
 15343-68 USSR scientific abstracts: Cybernetics, computers, and automation technology, no. 45; JPRS 42303.  
 15343-69 USSR scientific abstracts: Electronics and electrical engineering, no. 80; JPRS 42470.  
 15343-70 USSR scientific abstracts: Materials science and metallurgy, nos. 37-39; JPRS 42235, 42241, 42256.  
 15343-71 USSR scientific abstracts: Physics and mathematics, nos. 116-118; JPRS 42394, 42419, 42476.  
 15343-72 Vestnik of the USSR Academy of Medical Sciences, no. 6, 1967; JPRS 42298.  
 15343-73 Vestnik of USSR Academy of Sciences, v. 37, no. 3; JPRS 42386.

15344 Catalog [current translations] addendum. Aug. 23, 1967. 1 p. oblong 24° +  
 Y 3.J66:15/966/add.-4

## JPRS (series).

Y 3.J66:13/(nos.)

- 15345 42053. Soviet fishery research on Antarctic krill. USSR [articles, with bibliographies; edited] by R. N. Burukovskiy. Aug. 2, 1967. [2]+a-b+93 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32683).  
 15346 42054. Studies of contractile muscle proteins. USSR [articles, with bibliographies]. Aug. 2, 1967. [2]+a+35 p. il. 4° [From Biofizika, v. 8, nos. 5 and 6, 1963.]  $\Phi$  Paper, \$3.00 (TT: 67-32684).  
 15347 42055. Preparation and preservation of bones and their use in plastic surgery of joints. USSR [excerpts]; by A. S. Imamaliyev. Aug. 2, 1967. [2]+a+56 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32685).  
 15348 42056. Electron microscopic investigation of structure of cerebral cortex and mitochondrial nerve cells. USSR [articles, with bibliographies]. Aug. 2, 1967. [2]+a+67 p. il. 4° [From Arkhiv anatomii, gistologii i embriologii, v. 48, 1965, Tsitologiya, v. 7, 1965, and Zhurnal nevro-patologii i psikhatrii imeni S. S. Korsakova, v. 63-65, 1964-65.]  $\Phi$  Paper, \$3.00 (TT: 67-32686).  
 15349 43057. Organization of interdiscipline cybernetic studies in USSR; by S. Mikulinskiy. Aug. 2, 1967. [2] p.+5 leaves, 4°  $\Phi$  Paper, \$3.00 (TT: 67-32687).  
 15350 42058. Research on chemistry and technology of fertilizers, pesticides and salts. USSR [excerpts]. Aug. 2, 1967. [2]+9 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32688).  
 15351 42059. Largest coronagraph installed at Kislovodsk main astronomical observatory. USSR; by M. N. Gheyshev, et al. Aug. 2, 1967. [2] p.+5 leaves, 4° [From Priroda, no. 6, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32698).  
 15352 42060. Some results of expedition on board research vessel Akademik S. Vavilov in Red and Mediterranean Seas. USSR [with bibliography]; by V. I. Voytov. Aug. 2, 1967. [2]+9 p. il. 4° [From Okeanologiya, no. 2, v. 7, Mar.-Apr. 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32690).  
 15353 42061. Measurement of propagation velocity of elastic oscillations in surface layer of Indian Ocean water, on 36th cruise of experimental ship Vityaz. USSR [with bibliography]; by P. P. Ganson. Aug. 2, 1967. [2]+15 p. il. 4° [From Okeanologiya, v. 7, no. 2, Apr. 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32691).  
 15354 42602. Research and training reactor IR-100. USSR [with bibliography]; by Yu. M. Bulkin, et al. Aug. 2, 1967. [2]+10 p. il. 4° [From Atomnaya energiya, Nov. 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-32692).  
 15355 42065. Operation of Minsk-22 digital computer at Hungarian computer center described. Aug. 3, 1967. [2] p.+2 leaves, 4° [From Meres es automatika, no. 5, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32695).  
 15356 42066. Shaulation in biology and medicine. USSR [excerpts with bibliographies]; by V. M. Glushkov, et al. Aug. 3, 1967. [2]+2+36 p. il. 4° [From Modellirovaniye v biologii i meditsine, no. 2, 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-32696).  
 15357 42067. Certain problems in mathematical theory of critical state of reactors. USSR [with bibliography]; by S. B. Shikhov. Aug. 3, 1967. [2]+18 p. il. 4° [From Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, Jan.-Feb., 1967, v. 7, no. 1.]  $\Phi$  Paper, \$3.00 (TT: 67-32697).  
 15358 42068. New developments in Eastern European geodesy and cartography. Hungary [articles]. Aug. 3, 1967. [2]+a+17 p. 4° [From Geodeziya es kartografiya, no. 3, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32698).  
 15359 42069. Application of mathematical methods in military affairs. USSR [excerpts, with bibliographies]; by I. I. Anureyev, et al. Aug. 3, 1967. [2]+a+85 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32699).  
 15360 42086. Prospects and achievements of Soviet medicine. USSR; by V. V. Parin. Aug. 4, 1967. [2] p.+5 leaves, 4° [From Krasnaya zvezda, June 18, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32716).

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 15361 42087. Some problems of children's health protection in Rumanian Socialist Republic; by Ye. Ye. Matveyeva. Aug. 4, 1967. [2]+6 p. 4° [From *Zdravookhraneniye rossiyskoy federatsii*, no. 6, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32717).
- 15362 42088. Input and consolidation of information in human memory during natural sleep, USSR [excerpts]; by Leonid Andreyevich Bliznichenko. Aug. 4, 1967. [2]+a+15 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32718).
- 15363 42089. Safety engineering in painting and varnishing shops, USSR [with bibliography]; by Yu. A. Dukhanio. Aug. 4, 1967. [2]+a+17 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32719).
- 15364 42090. Biochemistry of viruses, USSR [excerpts]. Aug. 4, 1967. [2]+11 p. 4° [From *Biokhimiya virusov*, 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-32720).
- 15365 42091. Automation of geodetic work, Hungary. Aug. 4, 1967. [2] p.+3 leaves, 4° Aug. 4, 1967. [From *Muszake elet*, no. 13, June 29, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32721).
- 15366 42092. Theory of decisions and control of troops, USSR; by L. Yemel'yanov. Aug. 4, 1967. [2] p.+5 leaves, 4° [From *Krasnaya Zvezda*, July, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32722).
- 15367 42093. Research in cybernetics and theory control, USSR, [articles, with bibliographies]. Aug. 4, 1967. [2]+a+9 p. 4° [From *Doklady Akademii Nauk SSSR*, v. 174, no. 1, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32723).
- 15368 42094. Nikolayevsk shipbuilding plant reviews its progress, USSR, by T. Uralov. Aug. 4, 1967. [2]+7 p. 4° [From *Sudostroyeniye*, no. 6, June 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32724).
- 15369 42103. Meteorology and hydrology, no. 5, 1967. USSR [with bibliographies]. Aug. 4, 1967. [2]+a-c+197 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32733).
- 15370 42124. Classification of fixed capital by types in branch break-down, USSR; by V. S. Ostroumov. Aug. 7, 1967. [2]+12 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32754).
- 15371 42153. Danger of underestimating phenomenon of impurities in water, Rumania; by Arb. Gh. Sasarmar. Aug. 9, 1967. [2]+6 p. 4° [From *Scinteia*, June 23 and 25, 1967.]  $\Phi$  Paper (TT: 67-32783).
- 15372 42154. Composition and laying of submarine cables, USSR; by V. N. Kuleshov. Aug. 9, 1967. [2]+a+8 p. il. 4° [From *Mezhdugorodnyye kabel'nyye lini svyazi*]  $\Phi$  Paper, \$3.00 (TT: 67-32784).
- 15373 42155. Determining price of plutonium used as nuclear fuel, USSR [with bibliography]; by O. D. Kazachkovskiy, et al. Aug. 9, 1967. [2]+11 p. il. 4° [From *Atomnaya energiya*, June 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32785).
- 15374 42156. Promoting development of Soviet science [articles]. Aug. 9, 1967. [2]+a+8 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32786).
- 15375 42161. Hungarian data processing programs [articles]. Aug. 9, 1967. [2]+a+7 p. 4° [From *Informacio elektronika*, no. 2, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32791).
- 15376 42162. Vignette of mountain peasant life, USSR; by Mai. L. Zadorozhnoyi. Aug. 9, 1967. [2]+12 p. 4° [From *Vitchyzna*, no. 12, Dec. 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-32792).
- 15377 42163. Information center for electrical equipment, USSR. Aug. 9, 1967. [2]+12 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32793).
- 15378 42164. Industrial manufacture of heavy water, East Germany [with bibliography]; by N. M. Zhavoronkov, et al. Aug. 9, 1967. [2]+28 p. il. 4° [From *Kernenergie*, v. 4, no. 12, 1961.]  $\Phi$  Paper, \$3.00 (TT: 67-32794).
- 15379 42165. Activities of Soviet scientific organizations [articles]. Aug. 9, 1967. [2]+a+12 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32795).
- 15380 42176. International biological program, USSR; by I. A. Rubtsov. Aug. 10, 1967. [2] p.+5 leaves, 4° [From *Entomologicheskoye obozreniye*, v. 46, no. 2, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32806).
- 15381 42177. Economic efficiency of scientific research, Rumania; by Traian Salagean. Aug. 10, 1967. [2] p.+5 leaves, 4° [From *Scinteia*, no. 7404, July 17, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32807).
- 15382 42178. Automatic machines with variable structure, USSR; by G. A. Agasandyan. Aug. 10, 1967. [2] p.+4 leaves, 4° [From *Doklady Akademii Nauk SSSR*, 1967, v. 174, no. 3.]  $\Phi$  Paper, \$3.00 (TT: 67-32808).
- 15383 42179. Digital control computers for automatic addressing of goods, USSR [excerpts, with bibliography]; by M. G. Kogon, et al. Aug. 10, 1967. [2]+a+47 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32809).
- 15384 42190. Conference on higher neural activity and neurophysiology, USSR; by G. A. Antropov, et al. Aug. 11, 1967. [2] p.+4 leaves, 4° [From *Gigiyena i sanitariya*, no. 6, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32820).
- 15385 42193. Design and methods of calculating parameters of long-wave and ultra-long-wave antennas, USSR [with bibliography]. Aug. 11, 1967. [2]+a+24 p. il. 4° [From *Antenny*, no. 1, Svyaz', 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-32823).
- 15386 42194. Use of communication satellites for transmission of unidirectional (simplex) programs, USSR [with bibliography]; by N. V. Talyzin, et al. Aug. 11, 1967. [2]+8 p. il. 4° [From *Radiotekhnika*, no. 6, June 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32824).
- 15387 42209. Underwater cable design, USSR [with bibliography]; by I. Ye Yefimov, et al. Aug. 16, 1967. [2]+18 p. il. 4° [From *Konstruktivnyye i elektricheskiye kharakteristiki kabeley svyazi*, 1959.]  $\Phi$  Paper, \$3.00 (TT: 67-32839).

## JPRS (series)—Continued

- 15388 42210. Effect of clostridium bacteria toxins on hemolytic and lecithinase activity, USSR [with bibliography]; by S. P. Zhak. Aug. 14, 1967. [2]+8 p. 4° [From Mikrobiologichny zhurnal, v. 29, no. 3, May-June 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32840).
- 15389 42211. Influence of neutron bombardment on certain properties of tungsten. USSR [with bibliography]; by Sh. Sh. Ibragimov. Aug. 14, 1967. [2] p.+5 leaves, il. 4° [From Fizika metallov i metallovedeniya, v. 23, no. 2, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32841).
- 15390 42212. Approximate diffusion theory of thermionic converters, USSR [with bibliography]; by A. F. Nastoyashchiy. Aug. 14, 1967. [2] p.+3 leaves, 4° [From Atomnaya energiya, v. 23, no. 1, July 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32842).
- 15391 42219. Reports on pharmaceutical development in USSR, Bulgaria, and Rumania [articles]. Aug. 14, 1967. [2]+a+17 p. 4° [From Farmatsiya, v. 16, no. 3, May-June 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32849).
- 15392 42220. Cable communication lines, USSR (excerpts); by I. I. Grodnev, et al. Aug. 14, 1967. [2]+a+28 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32850).
- 15393 42221. Selection, distribution and structure of scientific cadres outlined, USSR [selected excerpts]; by G. M. Dobrov. Aug. 14, 1967. [2]+a+60 p. il. 4° [From Nauka o nauke, 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-32851).
- 15394 42227. Developments in computer technology, USSR; by S. Lebedev. Aug. 15, 1967. [2]+8 p. 4° [From Nedelya, no. 27, June 25-July 1, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32857).
- 15395 42228. Welding graphite materials, USSR [with bibliography]; by N. L. Kareta, et al. Aug. 15, 1967. [2]+6 p. il. 4° [From Avtomaticheskaya svarka, no. 1, Jan. 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32858).
- 15396 42233. Electronarcosis and electrosleep in man and animals, USSR [book excerpts]; by K. A. Ivanov-Muromskiy. Aug. 15, 1967. [2]+a+49 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32863).
- 15397 42237. USSR charges blackmail in Middle East oil crisis; by B. Rachkov. Aug. 15, 1967. [2] p.+5 leaves, 4° [From Izvestiya, July 11, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32867).
- 15398 42249. Strict prophylactic measures against African swine plague, Rumania; by Traian Negrutiu. Aug. 16, 1967. [2] p.+4 leaves, 4° [From Scinteia, no. 7403, July 16, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32878).
- 15399 42250. Organization of comprehensive research in Academy of Sciences, Ukrainian SSR, USSR; by B. Paton. Aug. 16, 1967. [2] p.+5 leaves, 4° [From Pravda, July 20, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32879).
- 15400 42265. Current state of infectious diseases in Yugoslavia and some organizational problems in preventing and counteracting them [with bibliography]; by Adelaida Turic, et al. Aug. 18, 1967. [2]+12 p. il. 4° [From Medicinski arhiv, no. 4-6, July-Dec. 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-32894).
- 15401 42273. Technical cybernetics, no. 3, 1967, USSR [with bibliography]. Aug. 21, 1967. [2]+a+c+316 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32902).
- 15402 42276. Selective inhibition of nonspecific cholinesterase by some 0,0-diehl-S-alkylthiophosphates, USSR [with bibliography]; by N. N. Golovnikov, et al. Aug. 21, 1967. [2] p.+5 leaves, 4° [From Doklady Akademii Nauk SSSR, v. 174, no. 3, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32905).
- 15403 42287. Storage and transport of liquified hydrogen and helium; coverings for liquified-gas storage containers, USSR; by P. M. Gofman-Zakharov. Aug. 22, 1967. [2]+a+14 p. il. 4° [From Nizkotemperaturnoye khraneniye szhizhennykh tekhnicheskikh gazov, 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-32916).
- 15404 42304. Efficiency of antibiotics research and production, Rumania; by Veronica Ardeleanu. Aug. 22, 1967. [2] p.+3 leaves, 4° [From Munca, no. 6130, July 27, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32933).
- 15405 42305. Biochemistry of protein nutrition (anabolic effect of protein nutrients and factors which affect it), USSR; by Yu. N. Kremer. Aug. 22, 1967. [2] p.+4 leaves, 4° [From Uspekhi sovremennoy biologii, v. 63, no. 3, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32934).
- 15406 42306. Radiation situation in area of Beoloyarskaya atomic electric power station imeni I. V. Kurchatov, USSR; by A. M. Petros'yants. Aug. 22, 1967. [2]+6 p. 4° [From Atomnaya energiya, v. 23, no. 1, July 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32935).
- 15407 42307. Improvements sought in graduate schools and in medical training, USSR [articles]. Aug. 22, 1967. [2]+a+8 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32936).
- 15408 42322. Critical parameters of fissionable materials systems and nuclear safety (handbook), USSR [excerpts]; by B. G. Dubovskiy, et al. Aug. 23, 1967. [2]+a-b+173 p.  $\Phi$  Paper, \$3.00 (TT: 67-32951).
- 15409 42337. State of computer technology in Czechoslovakia. Aug. 24, 1967. [2] p.+4 leaves, 4° [From Ekonomicka revue, no. 6, June 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32966).
- 15410 42338. Cuban correspondents report on North Vietnam [articles]. Aug. 24, 1967. [2]+a+28 p. 4° [From Cuba, June 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32967).
- 15411 42351. Soviet-Polish symposium on development of sciences; by M. K. Petrov, et al. Aug. 25, 1967. [2]+12 p. 4° [From Voprosy filosofii, no. 3, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-32980).
- 15412 42361. Bacteriological weapons and how to defend against them, USSR [with bibliography]; by A. M. Arkhangel'skiy, et al. Aug. 28, 1967. [2]+a+164 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-32990).

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15413 42382. Need for scientific information in medicine, USSR; by V. Kuleshov and N. Bukovskiy. Sept. 1, 1967. [2]+6 p. 4° [From Meditsinskaya gazeta, June 20, 1967.] ♣ Paper, \$3.00 (TT: 67-33011).
- 15414 42388. Determination of elasticity and shape of macromolecules, USSR [with bibliography]; by V. N. Tsvetkov. Sept. 1, 1967. [2]+26 p. II. 4° [From Zhurnal Vsesoyuzhogo Khimicheskogo Obshchestva, v. 6, 1961.] ♣ Paper, \$3.00 (TT: 67-33017).
- 15415 42390. Status of technical mechanical research in Hungary surveyed; by Adam Boaznay, et al. Sept. 1, 1967. [2]+23 p. 4° [From Magyar Tudományos Akademia Muszaki Tudományok Csztalyanak Kozlemenyei, no. 1-2, 1967.] ♣ Paper, \$3.00 (TT: 67-33019).
- 15416 42391. Use of radioisotopes as power sources, Western Europe. Sept. 1, 1967. [2]+9 p. II. 4° [From Nucleus, la revue scientifique, v. 8, no. 3, 1967.] ♣ Paper, \$3.00 (TT: 67-33020).
- 15417 42397. Meteorology in Socialist countries, Hungary [articles]. Sept. 1, 1967. [2]+a+12 p. 4° [From Idojaras, no. 3, May-June 1967.] ♣ Paper, \$3.00 (TT: 67-33026).
- 15418 42402. Acoustical measurements in shipbuilding, USSR [excerpts]; by I. I. Klyukin and A. Ye. Kolesnikov. Sept. 1, 1967. [2]+a-b+97 p. II. 4° ♣ Paper, \$3.00 (TT: 67-33031).
- 15419 42404. Increasing role of science in our era, USSR; by B. M. Kedrov. Sept. 1, 1967. [2]+16 p. 4° [From Voprosy filosofii, no. 5, 1967.] ♣ Paper, \$3.00 (TT: 67-33033).
- 15420 42417. Scuba diving in USSR [articles]. Sept. 1, 1967. [2]+a+28 p. II. 4° [From Bibliotekha sportsmena podvodnika, no. 15, 1966.] ♣ Paper, \$3.00 (TT: 67-33046).
- 15421 42422. Achievements of Belorussian Scientific Research Institute of Animal Husbandry in 50 years of Soviet power, USSR; by V. T. Gorin. Sept. 2, 1967. [2]+6 p. 4° [From Vestsi Akademii Navuk Belaruskay SRR, seryya sel'skagaspadarchnykh navuk, no. 2, 1967.] ♣ Paper, \$3.00 (TT: 67-33051).
- 15422 42426. Proposals for improving labor organization in Main Pharmacy Administration of Moldavian SSR, USSR; by V. I. Prokopishin and M. B. Kleymann. Sept. 2, 1967. [2]+6 p. 4° [From Zdravookhraneniye, no. 3, May-June 1967.] ♣ Paper, \$3.00 (TT: 67-33055).
- 15423 42427. Subject index of regulations published in Sbirka Zakonu CSSR during 1966, Czechoslovakia. Sept. 2, 1967. [2]+71 p. 4° [From Sbirka zakonu Ceskoslovenske socialisticke republiky, v. 1966, pt. 1-49.] ♣ Paper, \$3.00 (TT: 67-33056).
- 15424 42428. Industrialization of Bulgaria over 2 decades reviewed; by Petr Shapkarev. Sept. 2, 1967. [2]+15 p. II. 4° [From Belgariya, no. 5, May 1964.] ♣ Paper, \$3.00 (TT: 67-33057).
- 15425 42429. Some problems of public health organization in Polish National Republic; by V. Ch. Brzheskiy. Sept. 5, 1967. 2 p.+3 leaves, 4° [From Zdravookhraneniye Belorussii, no. 7, July 1967.] ♣ Paper, \$3.00 (TT: 67-33058).
- 15426 42430. Journey to Kashgariya and Kun-Lun', Communist China; by Mikhail Vasil'yevich Pevtsov. Sept. 5, 1967. [2]+a+442 p. II. 4° ♣ Paper, \$3.00 (TT: 67-33059).
- 15427 42440. Problem of meeting movements, USSR [with bibliography]; by N. N. Krasovkiy and V. Ye. Tret'yakov. Sept. 5, 1967. [2]+6 p. 4° [From Doklady Akademii Nauk SSSR, v. 173, no. 2, 1967.] ♣ Paper, \$3.00 (TT: 67-33069).
- 15428 42454. Soviet experimental power plant with magnetohydrodynamic generator, USSR; by Vladimir Orlov. Sept. 5, 1967. [2]+11 p. II. 4° [From Nauka i zhizn', no. 6, June 1967.] ♣ Paper, \$3.00 (TT: 67-33083).
- 15429 42458. Travel to Tallinn, Riga, and Vil'nyus, Finland. Sept. 5, 1967. [2]+8 p. II. 4° [Kaleva Travel Bureau, Helsinki, Finland, 1967.] ♣ Paper, \$3.00 (TT: 67-33087).
- 15430 42460. Arab performance put to test, Lebanon; by Quays al-Jardi. Sept. 5, 1967. [2]+23 p. 4° [From al-Nahar, July 16, 23, and 30.] ♣ Paper, \$3.00 (TT: 67-33089).

# JUSTICE DEPARTMENT

## Washington, D.C. 20530

- 15431 Report of Attorney General, pursuant to sec. 2 of joint resolution of Sept. 6, 1963, consenting to interstate compact to conserve oil and gas; July 1967. [1967.] [9]+86+[1] p. 4° (Report 16-8.) † ● Item 719-B  
L.C. card 67-62370 J 1.27: 967

# LABOR DEPARTMENT

## Washington, D.C. 20210

- 15432 Labor mobility, selected references. [Apr. 1967.] 15 p. 4° (Library.) †  
L 134: L 11/6

# GOVERNMENT PUBLICATIONS

- 15433 Manpower development and training act, review of training activities [with bibliography]. Aug. 1967. v+22 p. il. (Manpower Administration [Office of Manpower Policy, Evaluation, and Research].) † ● Item 745  
L 1.2: M 31/38
- 15434 MDTA and your health manpower needs. Aug. 1967. 20 p. il. 12° (Manpower Administration.) †  
L 1.2: M 31/42
- 15435 Seminar on manpower policy and program: University perspectives on manpower; by Paul A. Miller. [July 1967.] [1]+28 p. (Manpower Administration.) [Text on p. 2 and 3 of cover.] † ● Item 745  
L.C. card 67-62465 L 1.2: M 31/39

## LABOR STATISTICS BUREAU, Labor Dept. Washington, D.C. 20210

- 15436 BLS information system, search statement manual [with bibliography; prepared by Rudolph C. Mendelssohn, with assistance of Mac Shaibe and Rita L. Erickson]. Sept. 1967. cover title, [1]+43 p. 4° † L 2.46/3: In 3  
BLS report.
- 15437 312. How government measures unemployment [with selected bibliography; by Carol B. Kalish; revised by Florence Farber]. June 1967. cover title, [1]+18 p. 4° † ● Item 768-G  
L.C. card 67-62119 L 2.71: 312
- Bulletins. ● Item 768 L 2.3: (nos.)
- 15438 1530-67. Area wage survey: Paterson-Clifton-Passaic, N.J., metropolitan area, May 1967. June 1967. iii+22+[1] p. oblong 8° \* Paper, 25c.  
L.C. card L 66-151
- 15439 1530-69. Same: Savannah, Ga., metropolitan area, May 1967. June 1967. iii+18+[1] p. oblong 8° \* Paper, 20c.  
L.C. card L 66-146
- 15440 1530-77. Same: Lawrence-Haverhill, Mass.-N.H., metropolitan area, June 1967. July 1967. iii+18+[1] p. oblong 8° \* Paper, 20c.  
L.C. card L 66-155
- 15441 1530-78. Same: Midland and Odessa, Tex., metropolitan area, June 1967. July 1967. iii+16 p. oblong 8° \* Paper, 20c.  
L.C. card L 66-157
- 15442 1530-79. Same: Portland, Oreg.-Wash., metropolitan area, May 1967. Aug. 1967. iii+22+[1] p. oblong 8° \* Paper, 25c.  
L.C. card L 66-161
- 15443 1530-81. Same: Worcester, Mass., metropolitan area, June 1967. July 1967. iii+22+[1] p. oblong 8° \* Paper, 25c.  
L.C. card 66-62947
- 15444 1548. Union wages and hours: Motortruck drivers and helpers, July 1, 1966 and trend 1936-66. May 1967. iv+39 p. 4° \* Paper, 30c.  
L.C. card L 40-146
- 15445 1549. Union wages and hours: Printing industry, July 1, 1966 and trend 1907-66. May 1967. iv+56 p. 4° \* Paper, 40c.  
L.C. card L 38-61
- 15446 1551. Industry wage survey: Wool textiles, pt. 1, Wool yarn and broadwoven fabric mills, pt. 2, Dyeing and finishing plants, pt. 3, Scouring and combing plants, Nov. 1966. June 1967. vi+71+[2] p. 4° [Includes list of wage studies.] \* Paper, 45c.  
L.C. card L 58-31
- 15447 1552. Employee earnings and hours in nonmetropolitan areas of South and North Central regions, June 1965; [prepared by William L. Dansby]. June 1967. vi+94 p. 4° \* Paper, 50c.  
L.C. card 67-62322
- 15448 1553. Industry wage survey: Hospitals, July 1966; [prepared by George L. Stelluto]. June 1967. vi+107 p. 4° [Includes industry wage studies.] \* Paper, 70c.  
L.C. card L 61-50
- 15449 1554. Consumer price index, technical notes, 1959-63; [prepared by Office of Prices and Living Conditions]. [1967.] v+84 p. \* Paper, 50c.  
L.C. card 67-62323
- 15450 1557. Review of occupational employment statistics, employment of scientific, professional, and technical personnel in State governments, Jan. 1964; [prepared by Arthur Jaffe with assistance of Jack Golamb]. 1967. v+29 p. il. oblong 8° \* Paper, 25c.  
L.C. card 67-62325
- 15451 Consumer price index, short description, 1967. [1967.] iii+11 p. 4° †  
● Item 796 L 2.2: P 93/19
- 15452 Manpower and employment statistics, chap. 1, Labor force, employment, and unemployment [with list of Technical references]. Revised Jan. 1967.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

[1967.] 9 p. 4° [Reprint from Handbook of methods for surveys and studies, BLS bulletin 1458.] † L 2.3/a: M 317

- 15453 Negro in the West, some facts relating to social and economic conditions: 3, Negro family; [prepared by Charles A. Roumasset and Edward N. Smith]. [1967.] cover title, [6]+30 p. il. 4° † Bureau of Labor Statistics, 450 Golden Gate Avenue, Box 36017, San Francisco, Calif. 94102. L.C. card L 66-119 L 2.2: N 31/3/pt.3
- 15454 Proceedings of 24th Interstate Conference on Labor Statistics [Chicago, Ill.] June 14-17, 1966. [1967.] cover title, iv+220 p. il. 4° [Illinois Department of Labor served as cosponsor with Bureau of Labor Statistics.] † ● Item 769-C L.C. card 56-63356 L 2.80: 966
- 15455 Some aspects of economic problems of New York, for presentation at New York City Council on Economic Education, Economics of New York City In-Service Course, New York, N.Y., Nov. 16, 1966. [1967.] [1]+13 p. il. 4° † L 2.2: N 42y/3

LAND MANAGEMENT BUREAU, Interior Dept.  
Washington, D.C. 20240

Information bulletins. ● Item 632 1 53.9: (nos.)

- 15456 4. How to buy public lands. [1967.] [4] p. 4° \* Paper, 5c.
- 15457 5. Taylor grazing act, as amended and supplemented. [1967.] [8] p. 4° †

LIBRARY OF CONGRESS  
Washington, D.C. 20540

- 15458 Directory of information resources in United States: Federal Government, with supplement of Government-sponsored information resources. June 1967. vii+411 p. 4° (National Referral Center for Science and Technology.) \* Paper, \$2.75. ● Item 787-A LC 1.31: D 62/4  
L.C. card 67-60084
- 15459 Library of Congress catalog, music and phonorecords, cumulative list of works represented by Library of Congress printed cards, Jan.-June 1967. 1967. v+235 p. 4° † Paper, \$4.50 (semi-annual issue), Card Division. LC 30.8/6: 967  
L.C. card 53-60012

MARINE CORPS (Navy), Defense Dept.  
Washington, D.C. 20350

Fleet Marine Force manual FMFM (series).

- 15460 3-3. [Helicopterborne operations, June 12, 1963], Change 2; May 26, 1967. [1967.] [69] p. il. 4° [Issued with perforations.] \* Paper, 35c. ● Item 384 D 214.9/4: 3-3/ch.2
- 15461 Outlook for your future as marine, it's a good career, stay with it. [1967.] 12 p. narrow 16° (NAVMC 8734 (Rev. 4-67).) [One page left blank for remarks.] † ● Item 383 D 214.2: F 98/2

MINES BUREAU, Interior Dept.  
Washington, D.C. 20240

- 15462 Advance data on coke and coal chemicals in 1966; prepared by Eugene T. Sheridan. [1967.] 21 p. 4° (Mineral industry surveys; Coke and coal chemicals, annual.) † Mines Bureau, Pittsburgh, Pa. 15213 I 28.30/4: 966
- 15463 Apparent consumption of industrial explosives and blasting agents in United States, 1966; prepared by Bertha W. Brown, Nell B. Bradley, and Nina L. Jones. Aug. 1967. 11 p. 4° (Mineral industry surveys; Explosives, annual.) † Mines Bureau, Pittsburgh, Pa. 15213 I 28.112: 966

# GOVERNMENT PUBLICATIONS

## Information circular.

- 15464 8332. Basic properties of matrix algebra [with list of references]; by Katherine Harding. [1967.] [4]+39 p. 4° \* Paper, 30c. ● Item 637-A  
I 28.27: 8332
- 15465 Injury experience, employment, and worktime in mineral industries, 1965-66; prepared by staff of Branch of Accident Analysis. Sept. 1967. 36 p. 4° (Mineral industry surveys; Safety in Mineral industries, annual.)  
† Mines Bureau, Pittsburgh, Pa. 15213 I 28.113: 965-66
- 15466 Mineral industry of Argentina; by Charles L. Kimbell. [1967.] [2]+17 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 10c.  
I 28.37/a 2: Ar 37/965
- 15467 Mineral industry of Belgium; by Stephen C. Brown. [1967.] [2]+21 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 15c.  
I 28.37/a 2: B 411/965
- 15468 Mineral industry of Greece; by Stephen C. Brown and L. Nahai. [1967.] [2]+10 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 10c.  
I 28.37/a 2: G 81/965
- 15469 Mineral industry of Sweden; by F. L. Klinger. [1967.] [2]+27 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 15c. I 28.37/a 2: Sw 32/965
- 15470 Mineral industry of U.S.S.R.; by V. V. Strishkov. [1967.] [2]+35 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 15c.  
I 28.37/a 2: Un 33/965
- 15471 Minerals in world economy; by Stephen C. Brown and L. Nahai. [1967.] [2]+40 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 20c.  
I 28.37/a 2: W 893/965
- 15472 Petroleum refineries in United States and Puerto Rico, Jan. 1, 1967; [prepared by Paul M. Buttermore]. Aug. 28, 1967. 13 p. 4° (Mineral industry surveys; Petroleum refineries, annual.) † Mines Bureau, Pittsburgh, Pa. 15213  
I 28.17/2: 967
- 15473 Regional mineral industry review of Europe; by L. Nahai and Roman V. Sondermayer. [1967.] [2]+22 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 15c. I 28.37/a 2: Eu 74/965
- Report of investigations. ● Item 637-A I 28.23: (nos.)
- 15474 7008. Reaction rate of solid yttrium metal with molten lithium fluoride [with list of references]; by Bernard Porter, R. E. Meaker, and T. A. Henrie. [Aug. 1967.] [3]+13 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15475 7009. Minimum ignition energy and quenching distance in gaseous mixtures, techniques and apparatus; by E. L. Litchfield [and others]. [Aug. 1967.] [3]+11 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15476 7010. Pulverizing lignite in ball mill; by Leroy Dockter, J. W. Belter, and R. C. Ellman. [Aug. 1967.] [3]+13 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15477 7011. Computer techniques for predicating 3-phase flow in 5-spot waterfloods [with list of references]; by R. V. Higgins and A. J. Leighton. [Aug. 1967.] [3]+45 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15478 7012. Dewatering anthracite slurry [with list of references]; by G. A. Brady, Harold H. Griffiths, and J. W. Eckerd. [Aug. 1967.] [3]+13 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15479 7013. Gas-reservoir properties from pressure-buildup data [with bibliography]; by George L. Gates and W. Hodge Caraway. [Sept. 1967.] [3]+19 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15480 7014. Electron-beam purification of vanadium [with list of references]; by W. E. Anable. [Sept. 1967.] [3]+24 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15481 7015. Three-component borehole deformation gauge for determining stress in rock [with list of references]; by Robert H. Merrill. [Aug. 1967.] [2]+11+33 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15482 7018. Electrorefining yttrium [with list of references]; by C. C. Merrill and M. M. Wong. [Sept. 1967.] [3]+10 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 15483 7019. Power required to circulate gas-solids suspensions; by C. N. Rosenecker, N. H. Coates, and H. G. Lucas. [Sept. 1967.] [3]+10 p. il. 4° [Based on work done in cooperation with Atomic Energy Commission.] † Mines Bureau, Pittsburgh, Pa. 15213

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15484 Shipments of liquefied petroleum gases and ethane in 1966; prepared by James M. Foley. Aug. 29, 1967. 12 p. 4° (Mineral industry surveys; Liquefied petroleum gas shipments, annual.) † Mines Bureau, Pittsburgh, Pa. 15213 128.98/5:966

# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, D.C. 20546

AEC-NASA tech briefs. [Descriptions of innovations resulting from research and development program of AEC or from AEC-NASA interagency efforts.] † Paper, each 15c. NAS 1.29/2:(nos.)

- 15485 67-10222. Subroutines GEORGE and DRASTC simplify operation of automatic digital plotter. July 1967. 1 p. 4° (NUC-10044.)
- 15486 67-10223. Calculation of resonance neutron absorption in 2-region problems (GAROL code). July 1967. 1 p. 4° (NUC-10045.)
- 15487 67-10224. Computer program calculates steady-state temperature distribution within plane or axisymmetric solids. July 1967. 1 p. 4° (NUC-10049.)
- 15488 67-10235. Computer program simplifies design of rotating components of turbomachinery. July 1967. [2] p. 4° ([NUC-10046.]
- 15489 67-10237. Post-stressed concrete foundation may reduce machinery vibration. July 1967. [2] p. 11. 4° ([ARG-130.]
- 15490 67-10238. Traveling wire electrode increases productivity of electrical discharge machining (EDM) equipment. Aug. 1967. [2] p. 11. 4° ([ARG-136.]
- 15491 67-10261. Analytical technique permits comparison of reliability of alternate mechanical designs. July 1967. [2] p. 4° ([NUC-10065.]
- 15492 67-10262. Solid state circuit averages multiple signals and rejects those varying significantly from the average. Aug. 1967. [2] p. 11. 4° ([NUC-10066.]
- 15493 67-10263. Automated tester permits precise calibration of pressure transducers from 0 to 1050 psi. Aug. 1967. [2] p. 11. 4° ([NUC-10067.]
- 15494 67-10295. Improved ultrasonic TV images achieved by use of Lamb-wave orientation technique. Aug. 1967. [2] p. 11. 4° ([ARG-203.]
- 15495 Biomedical application teams. [1967.] cover title, 18 p. 11. narrow 8° †  
● Item 830-C NAS 1.2: B 52
- 15496 Index to management issuances: pt. 1, NPDs and NMIs [NASA policy directives and management instructions in print as of June 30, 1967]; pt. 2, NASA procurement regulation [in print as of Nov. 30, 1966]. June 1967 edition. [1967.] cover title, [1]+78+32 p. 4° (NHB 1410.5F.) [Supersedes NHB 1410.5E, Apr. 1967.] † ● Item 830-F  
L.C. card 66-60230 NAS 1.18/2:967-2

NASA contractor report CR (series). NAS 1.26:(nos.)

- 15497 822. Analysis and design of space vehicle flight control systems: v. 3, Linear systems [with list of references]; by Arthur L. Greensite. July 1967. cover title, x+212 p. 11. 4° [Prepared under contract NAS 8-11494 by General Dynamics Convair, a division of General Dynamics Corporation, San Diego, Calif.] † Paper, \$3.00.
- 15498 823. Same: v. 4, Nonlinear systems [with list of references]; by Arthur L. Greensite. July 1967. cover title, x+168 p. 11. 4° [Prepared under contract NAS 8-11494 by General Dynamics Convair, a division of General Dynamics Corporation, San Diego, Calif. Issued by originator as GDC-DDE65-056.] † Paper, \$3.00.
- 15499 828. Same: v. 9, Optimization methods [with list of references]; by Arthur L. Greensite. July 1967. cover title, vi+184 p. 11. 4° [Prepared under contract NAS 8-11494 by General Dynamics Convair, a division of General Dynamics Corporation, San Diego, Calif. Issued by originator as GDC-DDE66-026.] † Paper, \$3.00.
- 15500 831. Same: v. 12, Attitude control in space [with list of references]; by Arthur L. Greensite. Aug. 1967. cover title, ix+158 p. 11. 4° [Prepared under contract NAS 8-11494 by General Dynamics Convair, a division of General Dynamics Corporation, San Diego, Calif. Issued by originator as GDC-DDE67-001.] † Paper, \$3.00.
- 15501 832. Same: v. 13, Adaptive control [with list of references]; by Arthur L. Greensite. Aug. 1967. cover title, ix+81 p. 11. 4° [Prepared under contract NAS 8-11494 by General Dynamics Convair, a division of General Dynamics Corporation, San Diego, Calif. Issued by originator as GDC-DDE67-002.] † Paper, \$3.00.
- 15502 833. Same: v. 14, Load relief [with lists of references]; by Robert D. Harris. Aug. 1967. cover title, xi+74 p. 11. 4° [Prepared under contract NAS 8-11494 by General Dynamics Convair, a division of General Dynamics Corporation, San Diego, Calif. Issued by originator as report GDC-DDE67-003.] † Paper, \$3.00.

†For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 51



# GOVERNMENT PUBLICATIONS

## NASA contractor report CR (series)—Continued

- 15503 834. Same: v. 15, Elastic body equations [with list of references]; by Arthur L. Greensite. Aug. 1967. cover title, vii+103 p. il. 4° [Prepared under contract NAS 8-11494 by General Dynamics Convair, division of General Dynamics Corporation, San Diego, Calif. Issued by originator as GDC-DDE65-025.]  $\Phi$  Paper, \$3.00.
- 15504 842. High-performance "once-through boiling of potassium in single tubes at saturation temperatures of 1500° to 1750° F [with bibliography]; by J. R. Peterson. cover title, xv+179 p. il. 4° [Prepared under contract NAS 3-2538 by General Electric Company, Missile and Space Division, Cincinnati, Ohio.]  $\Phi$  Paper, \$3.00.
- 15505 846. Launch vehicle wind and turbulence response by nonstationary statistical methods [with list of references]; by James E. Bailey, John L. Palmer, and Ruric E. Wheeler. Aug. 1967. cover title, vii+124 p. il. 4° [Prepared under contract NAS 8-20344 by Hayes International Corporation, Huntsville, Ala. Issued by originator as report 1340.]  $\Phi$  Paper, \$3.00.
- 15506 851. Thermal and hydraulic performance of potassium during condensation inside single tubes [with list of references]; by S. G. Sawochka. Aug. 1967. cover title, xvi+149 p. il. 4° [Prepared under contract NAS 3-2528 by General Electric, Missile and Space Division, Cincinnati, Ohio.]  $\Phi$  Paper, \$3.00.
- 15507 859. Study of astronaut capabilities to perform extravehicular maintenance and assembly functions in weightlessness conditions [with bibliographies]; by E. C. Wortz and others. Sept. 1967. cover title, xvi+316+[102] p. il. 4° [Prepared under contract NAS 1-5875 by Aircsearch Manufacturing Company, division of Garrett Corporation, Los Angeles, Calif.]  $\Phi$  Paper, \$3.00.  
L.C. card 67-62456
- 15508 860. Summary of development of optical waveguides and components [with list of references]; by E. Ronald Schineller. Aug. 1967. cover title, iv+57 p. il. 4° [Prepared under contract NAS 12-2 by Wheeler Laboratories, Great Neck, N.Y. Issued by originator as report 1471.]  $\Phi$  Paper, \$3.00.
- 15509 861. Study of ceramic heat shields for lifting reentry vehicles [with list of references]; by J. N. Krusos. Aug. 1967. cover title, vii+68+[34] p. il. 4° [Prepared under contract NAS 1-5370 by Bell Aerosystems Company, Buffalo, N.Y.]  $\Phi$  Paper, \$3.00.
- 15510 862. Theoretical study of meteoric trajectories and processes, including examination of incidence and characteristics of photographic meteors by reduction of about 600 data points [with list of references]; by Annette Posen and Richard E. McCrosky. Aug. 1967. cover title, vii+45 p. il. 4° [Prepared under grant NSG-460 by Harvard University, Meteor Department, Harvard College Observatory, Cambridge, Mass.]  $\Phi$  Paper, \$3.00.
- 15511 863. Propagation of millimeter and submillimeter waves [with list of references]; by V. E. Derr. Aug. 1967. cover title, xi+114 p. il. 4° [Prepared under contract NAS 12-10 by Martin Marietta Corporation, Orlando, Fla. Issued by originator as OR 8549.]  $\Phi$  Paper, \$3.00.
- 15512 868. Plasma boundary interactions [with list of references]; by S. Alsenberg [and others]. Aug. 1967. cover title, viii+85 p. il. 4° [Prepared under contract NASw-1014 by Space Sciences, Inc., Waltham, Mass.]  $\Phi$  Paper, \$3.00.
- 15513 NASA management issuances, table of contents. June 1967 edition. [1967.] cover title, ii+58 p. 4° (NHB 1410.4F.) [Margin index and how to use on p. 4 of cover.]  $\dagger$   $\bullet$  Item 830-F NAS 1.18: M 31
- NASA SP (series). NAS 1.21: (nos.)
- 15514 120. Fuel cells, review of Government-sponsored research, 1950-64 [articles, with lists of references; compiled by L. G. Austin]. [1967.] cover title, +439 p. il. 4° ([Scientific and Technical Information Division.]) [Prepared under contract NASw-1039 in cooperation with John I. Thompson & Co.]  $\bullet$  Paper, \$2.75.  $\bullet$  Item 830-I  
L.C. card 66-60090
- 15515 134. Closed life-support system, Ames Research Center, Moffett Field, Calif., Apr. 14-15, 1966 [articles, with bibliographies]; prepared by Ames Research Center. 1967. v+227 p. il. 4° (Scientific and Technical Information Division, Office of Technology Utilization.)  $\Phi$  Paper, \$3.00.  
L.C. card 67-62411
- 15516 3030. Handbook of physical properties of planet Mars [with list of references]; by C. M. Michaux. 1967. v+167 p. il. (Scientific and Technical Information Division, Office of Technology Utilization.) [Prepared under contract by Douglas Aircraft Company, Inc., Santa Monica, Calif.]  $\bullet$  Paper, 70c.  $\bullet$  Item 830-I  
L.C. card 66-61839
- 15517 5002. Soldering electrical connections, handbook. 4th edition. 1967. v+66 p. il. ([Technology Utilization.]) Technology Utilization Division, Office of Technology Utilization.)  $\bullet$  Paper, 30c.  $\bullet$  Item 830-I  
L.C. card 64-61070
- 15518 5019. NASA contributions to advanced valve technology, survey [with bibliographies]; by Louis C. Burmeister, John B. Loser and Eldon C. Sneegas. Revised and enlarged edition. 1967. vii+183 p. il. 4° ([Technology Utilization.]) Technology Utilization Division, Office of Technology Utilization.) [Prepared under contract for NASA by Midwest Research Institute, Kansas City, Mo.]  $\bullet$  Paper, \$1.00.  $\bullet$  Item 830-I

$\bullet$ For Sale by Superintendent of Documents

$\dagger$ Distribution Made by Issuing Office

$\Phi$ Official Use. Not Available



- 15519 7011 (39). Aerospace medicine and biology, continuing bibliography with indexes, selection of annotated references to unclassified reports and journal articles that were introduced into NASA Information System during June 1967; [prepared by Scientific and Technical Information Facility operated by Documentation Incorporated]. July 1967. vi+86+1-77 p. 4° (Scientific and Technical Information Division.) [Compiled through co-operative efforts of Aerospace Medicine and Biology Bibliography Project of Library of Congress (LC), American Institute of Aeronautics and Astronautics (AIAA), and NASA.]  $\Phi$  Paper, \$3.00.  
L.C. card 65-62677
- 15520 9000. NASA specifications and standards. May 1967. vii+380 p. 4° (Scientific and Technical Information Division.)  $\Phi$  Paper, \$3.00.  
L.C. card 67-62472
- 15521 NASA standard procedures for microbiological examination of space hardware [with list of references]. Aug. 1967 edition [1967.] cover title, iii-vii +40 p. il. 4° (NHB 5340.1.) \* Paper, 30c. • Item 830-F  
NAS 1.18: M 58
- 15522 NASA standards for clean rooms and work stations for microbially controlled environment. Aug. 1967 edition. [1967.] cover title, [1]+iv+35 p. il. 4° (NHB 5340.2.) \* Paper, 30c. • Item 830-F  
NAS 1.18: C 58
- NASA tech briefs. [Issued by Technology Utilization Division to summarize specific technical innovations derived from the space program. Issued with perforations.]  $\Phi$  Paper, each 15c. NAS 1.29: (nos.)
- 15523 67-10169. Study of dynamic response of elastic space stations. June 1967. [2] p. 4° ([NPO-10124.])
- 15524 67-10172. Space trajectories program for IBM 7090. June 1967. [2] p. 4° ([NPO-10125.])
- 15525 67-10173. Linear circuit analysis program for IBM 1620 Monitor II, 1311/1443 data processing system (CIRCS). June 1967. 1 p. 4° (NPO-10131.)
- 15526 67-10193. Computer program simulates physical systems by solving simultaneous differential equations describing systems. June 1967. [2] p. 4° ([NPO-10019.])
- 15527 67-10217. Modal combination computer program for dynamic analysis of structures. June 1967. [2] p. 4° ([NPO-10129.])
- 15528 67-10228. Substituting gold for silver improves electrical connections. July 1967. 1 p. 4° (M-FS-2390.)
- 15529 67-10231. Improved atmospheric particle analyzer. July 1967. [2] p. il. 4° ([ERC-33.])
- 15530 67-10233. Land landing couch dynamics computer program. July 1967. [2] p. 4° ([MSC-1210.])
- 15531 67-10240. Vis-A-Plan (Visualize a plan) management technique provides performance-time scale. July 1967. [2] p. 4° (KSC-10073.)
- 15532 67-10243. Analytical technique characterizes all trace contaminants in water July 1967. [1] p. 4° (MSC-11032.)
- 15533 67-10244. Cable clamp bolt fixture facilitates assembly in close quarters. July 1967. [2] p. il. 4° ([KSC-67-80.])
- 15534 67-10251. Efficient, temperature compensated subcarrier oscillator. Aug. 1967. [2] p. il. 4° ([JPL-SC-091.])
- 15535 67-10256. Line adapter provides quick disconnect under moderate side loading. July 1967. 1 p. il. 4° (M-FS-2159.)
- 15536 67-10258. Multichannel pulse height analyzer is inexpensive, features low power requirements. Aug. 1967. [2] p. il. 4° ([HON-10020.])
- 15537 67-10267. Tester automatically checks paper tape punch and reader after maintenance. Aug. 1967. [2] p. il. 4° ([ARC-66.])
- 15538 67-10268. Self-balancing line-reversal pyrometer automatically measures gas temperatures. Aug. 1967. [2] p. il. 4° ([Lewis-348.])
- 15539 67-10269. Oscilloscope used as X-Y plotter or 2-dimensional analyzer. Aug. 1967. [2] p. il. 4° ([Lewis-311.])
- 15540 67-10270. Electronic shutter gates image orthicon on and off. Aug. 1967. 1 p. 4° (HQ-96.)
- 15541 67-10271. Pipe joints reinforced in place with fitted aluminum sleeves. Aug. 1967. [2] p. il. 4° ([MSC-11109.])
- 15542 67-10272. Portable machine welding head automatically controls arc. Aug. 1967. 1 p. 4° (MFS-12763.)
- 15543 67-10273. Spherical joint connects axially misaligned flanges. Aug. 1967. 1 p. il. 4° (M-FS-2238.)
- 15544 67-10275. Primary cell uses neither liquid nor fused electrolytes. Aug. 1967. [2] p. il. 4° ([NPO-10001.])
- 15545 67-10277. IR vidicon scanner monitors many test points. Aug. 1967. 1 p. 4° (M-FS-1937.)
- 15546 67-10278. CINDA, Chrysler Improved numerical differencing analyzer computer program. Aug. 1967. [2] p. 4° ([M-FS-2298.])
- 15547 67-10283. Concept for modifying drafting instruments to minimize smearing. Aug. 1967. 1 p. il. 4° (KSC-10056.)
- 15548 67-10284. Vibrator elapsed time is automatically controlled. Aug. 1967. [2] p. il. 4° ([MFS-2573.])
- 15549 67-10285. Static seal concept to accommodate seat tolerances. Aug. 1967. 1 p. il. 4° (MFS-1854.)

# GOVERNMENT PUBLICATIONS

## NASA tech briefs—Continued

- 15550 67-10290. Trace hydrazines in aqueous solutions accurately determined by gas chromatography. Aug. 1967. 1 p. 4° (MSC-11222.)
- 15551 67-10291. Remotely operated high pressure valve protects test personnel. Aug. 1967. [2] p. il. 4° ((MSC-11010.))
- 15552 67-10292. Welding of AM 350 and AM 355 steel. Aug. 1967. 1 p. 4° (MFS-2314.)
- 15553 67-10308. Jacketed cryogenic piping is stress relieved. Aug. 1967. [2] p. il. 4° (MFS-985.))

## NASA technical note TN (series).

NAS 1.14: D-(nos.)

- 15554 D-3912. Compendium of NASA Aerobee sounding rocket launchings for 1964 [with bibliographies]; by Jon R. Busse [and others]. July 1967. cover title, iv+73 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15555 D-3945. Experimental evaluation of 6 ablative-material thrust chambers as components of storable-propellant rocket engines [with list of references]; by Arthur M. Shinn, jr. June 1967. cover title, [1]+41 p. il. 4° [Some illustrations are colored.]  $\Phi$  Paper, \$3.00.
- 15556 D-4027. Linearized error analysis on onboard primary navigation systems for Apollo lunar module [with list of references]; by Jerrold H. Suddath, Robert H. Kidd III, and Arnold G. Reinhold. Aug. 1967. cover title, ii+23 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15557 D-4030. Aerodynamic data on large semispan tilting wing with 0.5-diameter chord, single-slotted flap, and single propeller 0.08 chord below wing [with list of references]; by Marvin P. Fink. July 1967. cover title, [1]+200 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15558 D-4043. Monte Carlo code for solution of planar electron-diode problems including electron-neutral elastic collisions [with list of references]; by Paul Swigert and Charles M. Goldstein. Aug. 1967. cover title, v+133 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15559 D-4048. Feasibility of direct relay of Apollo spacecraft data via communication satellite [with list of references]; by P. E. Schmid. Aug. 1967. cover title, iii+48 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15560 D-4068. Qualification evaluation of pitch control motor for launch escape system of Apollo spacecraft program [with list of references]; by B. J. Lee and P. E. Cota, jr. Aug. 1967. cover title, x+93 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15561 D-4069. Thermal bending plus twist of thin-walled cylinder of open section with application to gravity gradient booms [with list of references]; by Harold P. Frisch. Aug. 1967. cover title, iii+60 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15562 D-4070. Effects of fluid properties and gravity level on boiling in discrete bubble region [with list of references]; by Thomas H. Cochran and John C. Aydelott. Aug. 1967. cover title, [1]+24 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15563 D-4082. Approximate solutions of Runge-Kutta equations [with list of references]; by Joseph S. Rosen. Aug. 1967. cover title, iv+28 p. 4°  $\Phi$  Paper, \$3.00.
- 15564 D-4088. Differential corrections applied to Vinti's accurate reference satellite orbit with inclusion of 3d zonal harmonic [with list of references]; by Harvey Walden and Stan Watson. Aug. 1967. cover title, iii+46 p. 4°  $\Phi$  Paper, \$3.00.
- 15565 D-4096. Plane isotropic buildup factors for bremsstrahlung calculations [with list of references]; by M. O. Burrell and J. W. Watts. Aug. 1967. cover title, v+30 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15566 D-4097. Fortran IV program for calculation of thermodynamic data [with list of references]; by Bonnie J. McBride and Sanford Gordon. Aug. 1967. cover title, vi+129 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15567 D-4104. Low-thrust orbit raising in continuous sunlight while thrusting in plane perpendicular to earth-sun line [with list of references]; by James E. Ramler. Aug. 1967. cover title, [1]+45 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15568 D-4109. Critical analysis of various numerical integration methods for computing flow of gas in chemical nonequilibrium [with list of references]; by Harvard Lomax and Harry E. Bailey. Aug. 1967. cover title, [1]+42 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15569 D-4115. Flyby measurements of profiles of water vapor, particulate matter, and carbon dioxide in Martian atmosphere [with list of references]; by Alfred E. Barrington, Anthony J. Caruso, and Gene G. Manuella. Aug. 1967. cover title, [1]+13 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15570 D-4124. Buckling of pressurized toroidal ring under uniform external loading [with list of references]; by George E. Weeks. Aug. 1967. cover title, [1]+22 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15571 D-4132. Experimental investigation of frequency and viscous damping of liquids during weightlessness [with list of references]; by Jack A. Salzman, Thomas L. Labus, and William J. Masica. Aug. 1967. cover title, [1]+18 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15572 D-4141. Results of brief flight investigation of COIN-type STOL aircraft [with list of references]; by Terrell W. Feistel and Robert C. Innes. Aug. 1967. cover title, [1]+37 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15573 D-4142. Wind-tunnel investigation of 7-foot-diameter ducted propeller [with list of references]; by Kenneth W. Mort and Berl Gamse. Aug. 1967. cover title, [1]+39 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15574 D-4143. Effect of recrystallization on friction properties of some metals in single-crystal and polycrystalline form [with list of references]; by Donald H. Buckley. Sept. 1967. cover title, [1]+18 p. il. 4°  $\Phi$  Paper, \$3.00.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15575 D-4144. Computer program for determining effects of chemical kinetics on exhaust-nozzle performance [with list of references]; by Leo C. Francis and Jeanne A. Healy. Sept. 1967. cover title, [1]+104 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15576 D-4146. Preliminary determinations of temperature limitations of ester, ether, and hydrocarbon base lubricants in 25-mm bore ball bearings [with list of references]; by Erwin V. Zaretsky and William J. Anderson. Sept. 1967. cover title, [1]+21 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15577 D-4150. Volume ion production costs in tenuous plasmas, general atom theory and detailed results for helium, argon, and cesium [with list of references]; by John V. Dugan, Jr., and Ronald J. Sovie. Sept. 1967. cover title, [1]+47 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15578 D-4152. Sliding friction of some members of platinum metals group [with list of references]; by Donald H. Buckley. Sept. 1967. cover title, [1]+15 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15579 D-4156. Theoretical performance of solar-cell space power systems using spectral dispersion: 1. Dispersion by prism reflector [with list of references]; by Anthony F. Katajczak. Sept. 1967. cover title, [1]+24 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15580 D-4163. Characteristics of split phase telecommunications link [with list of references]; by William E. Zrubek. Sept. 1967. cover title, ii+17 p. il. 4°  $\Phi$  Paper, \$3.00.
- 15581 D-4166. Exact semiclassical theory for galvanomagnetic effects in metals [with list of references]; by Gale Fair and P. L. Taylor. Sept. 1967. cover title, [1]+8 p. 4°  $\Phi$  Paper, \$3.00.

## NASA technical translation TT (series).

- 15582 F-455. Problems of astrophysics [with list of references]; Ye P. Fedorov, editor-in-chief. Aug. 1967. cover title, v+127+168 p. il. 4° [12dat-el'tvo, Naukove dumka, Kiev, 1966.]  $\Phi$  Paper, \$3.00.  
L.C. card 67-62460 NAS 1.13/2 : F-455

## NATIONAL ARCHIVES AND RECORDS SERVICE, General Services Administration, Washington, D.C. 20408

- 15583 Publications of National Archives and Records Service. [June 1967.] [1]+17 p. narrow 8° (National Archives.)  $\dagger$   $\bullet$  Item 569-C  
L.C. card A 47-3061 GS 4.17: 967

NATIONAL BUREAU OF STANDARDS, Commerce Dept.  
Gaithersburg, Md. 20760

## Building science series. (Building Research Division, Institute for Applied Technology.)

- 15584 9. Thermal-shock resistance for built-up membranes [with lists of references; by] William C. Cullen and Thomas H. Boone. Aug. 21, 1967. iii+13 p. il. 4°  $\Phi$  Paper, 20c. (incorrectly given on title page as 15c.).  $\bullet$  Item 241-A  
L.C. card 67-60063 C 13.29/2 : 9

Miscellaneous publications.  $\bullet$  Item 247

C 13.10: (nos.)

- 15585 250. Calibration and test services of National Bureau of Standards, notice of change to 1965 edition, insert 9, 10. June 15-16, 1967. 2+1 p. 4° [Issued with perforations.]  $\dagger$
- 15586 Same: insert 11. June 25, 1967. 3 p. 4° [Issued with perforations.]  $\dagger$
- 15587 Same: insert 12. June 30, 1967. 18 p. 4° [Issued with perforations.]  $\dagger$
- 15588 260-13. Standard reference materials, Mossbauer spectroscopy standard for chemical shift of iron compounds [with list of references; by] Jon J. Spijkerman [and others]. July 28, 1967. viii+47+[1] p. il. 4°  $\Phi$  Paper, 40c.  
L.C. card 67-60030
- 15589 288. Directory of United States standardization activities; [by] Joan E. Hartman. Aug. 1, 1967. v+276+[1] p. [Supersedes Miscellaneous publication 230.]  $\Phi$  Cloth, \$2.00.  
L.C. card 67-60370
- 15590 292. Bibliography of Liesegang rings [1835-1965; by] Kurt H. Stern. 2d edition. Sept. 1, 1967. cover title, v+61 p. 4° [Since first edition of bibliography published by University of Arkansas Editorial Service, 1955, new references have been added.]  $\Phi$  Paper, 40c.  
L.C. card 67-61858

Monographs.  $\bullet$  Item 247-A

C 13.44: (nos.)

- 15591 25. Standard X-ray diffraction powder patterns: sec. 5 [Data for 80 substances, with lists of references; by] H. W. Swanson [and others]. Aug. 31, 1967. iv+90 p. il. 4°  $\Phi$  Paper, 55c.  
L.C. card 53-61386

$\Phi$ For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

$\bullet$ Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## Monographs—Continued

- 15592 103. Realistic uncertainties and mass measurement process, illustrated review; [by] P. E. Pontius and J. M. Cameron. Aug. 15, 1967. [2]+17 p. il. 4° (Institute for Basic Standards.) [Condensed version of lecture on error of measurement, presented at Seminar on Mass Measurement, held at National Bureau of Standards, Nov. 30-Dec. 2, 1964, and essentially as presented at 20th annual ISA conference held at Los Angeles, Calif., Oct. 4-7, 1965.] \* Paper, 20c.  
L.C. card 67-60056

## NATIONAL LABOR RELATIONS BOARD Washington, D.C. 20570

- 15593 Address by Howard Jenkins, jr., Member, National Labor Relations Board, Washington, D.C., at 1st meeting of Urban League of Pikes Peak Region, affiliate of National Urban League. Aug. 16, 1967. [1]+9 p. 4° (R-1087.)  
† LR 1.7: J 41/14
- 15594 Decisions and orders of National Labor Relations Board, v. 158, Apr. 14-June 9, 1966. 1967. xvi+1756 p. \* Cloth, \$5.50. ● Item 826  
L.C. card 37-26136 LR 1.8: 158
- 15595 National Labor Relations Board field manual. July 1967. cover title, [209 p.] [Issued in looseleaf form.] \* Paper, \$2.00 (including basic manual and supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 827-A LR 1.6/3: 967
- 15596 Purchaser and labor contract, escalating theory, by John H. Fanning, member, National Labor Relations Board, at annual convention of State Bar of Texas (Labor Law Section), Dallas, Tex., July 7, 1967. 1967. [1]+35 p. 4° (R-1081.) † LR 1.7: F 21/18

## NATIONAL LIBRARY OF MEDICINE, Health, Education, and Welfare Dept., Bethesda, Md. 20014

- 15597 Bibliography of medical reviews, v. 12, 1967. [1967.] [3]+114+39 p. 4°  
\* Paper, \$1.25. ● Item 508-F  
L.C. card 56-61913 FS 2.209/2: 12
- 15598 Catalogue of 16th century printed books in National Library of Medicine; compiled by Richard J. Durling. 1967. xii+698 p. il. 4° \* Cloth, \$5.25.  
● Item 508-F  
L.C. card 67-62303 FS 2.209: S19

## NATIONAL MUSEUM, Smithsonian Institution Washington, D.C. 20560

### Bulletins. ● Item 919 SI 3.3:(nos.)

- 15599 248. Carriker on Mallophaga, posthumous papers, catalog of forms described as new, and bibliography, Melbourne A. Carriker, jr. [1879-1965]; edited by K. C. Emerson. 1967. ix+150 p. il. 1 pl. ([Museum of Natural History.])  
\* Paper, 75c.  
L.C. card 67-62439
- 15600 250. White House china of Lincoln Administration In Museum of History and Technology; [by] Margaret Brown Klapthor. 1967. [2]+111-120 p. il. 4° (Contributions from Museum of History and Technology, paper 62.)  
\* Paper, 35c.  
L.C. card 67-62324

- 15601 Contributions from National Herbarium.  
v. 38, pt. 2. Studies of fern types, 1; by C. V. Morton. 1967. [1]+29-83 p. †  
● Item 920  
L.C. card 67-62364 SI 3.8: 38/2

### Proceedings of National Museum. † ● Item 922 SI 3.6:(nos.)

- 15602 3595. Ecology and social organization in iguanid lizard, *Anolis lineatopus* [with list of literature cited]; by S. Stanley Rand. 1967. v. 122, cover title, 79 p. il.
- 15603 3597. Comparative study in rodent ethology with emphasis on evolution of social behavior, 1 [with list of literature cited]; by John F. Eisenberg. 1967. v. 122, cover title, 51 p. il.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15604 3602. Crayfishes and their epizootic ostracod and branchiobdellid associates of Mountain Lake, Va., region [with list of literature cited]; by Horton H. Hobbs, jr., Perry C. Holt, and Margaret Walton. 1967. v. 123, cover title, 84 p. il.
- 15605 3613. Two new crustaceans, parasitic copepod *Sphaeronellopsis monothrix* (Choniostomatidae) and its myodocopid ostracod host *Parasterope pollex* (Cylindroleberidae) from southern New England coast [with list of literature cited]; by Thomas E. Bowman and Louis S. Kornicker. 1967. v. 123, cover title, 28 p. il. 1 pl.
- 15606 3616. Review of genus *Euparixia*, with description of new species from nests of leaf-cutting ants in Louisiana (Coleoptera: Scarabaeidae) [with list of literature cited]; by Robert E. Woodruff and Oscar L. Cartwright. 1967. v. 123, cover title, 21 p. il. 2 pl.
- 15607 3623. *Carlus*, new genus of caligoid copepod, with key to genera of Calignae [with list of literature cited]; by Roger F. Cressey. 1967. v. 123, cover title, 8 p. il.

NATIONAL PARK SERVICE, Interior Dept.  
Washington, D.C. 20242

- 15608 Assateague Island [National Seashore]. [1967.] 2 p. il. oblong 8°, folded into oblong 32° size. (NS-A1-17000.) \* Paper, 10c. ● Item 651  
I 29.6/2: As 7/967
- 15609 Buck Island Reef [National Monument]. [1967.] 2 p. il. narrow f°, folded into narrow 8° size. \* Paper, 10c. ● Item 650  
I 29.21: B 85/967
- 15610 Camping in National park system. [1967.] [20] p. il. 4°, folded into narrow 8° size. \* Paper, 25c. ● Item 646-C  
I 29.71: 967
- 15611 Flaming Gorge Recreation Area, Wyo., Utah. [Revised 1967.] [1967.] [2] p. il. large 4°, folded into narrow 8° size. \* Paper, 15c. ● Item 654  
I 29.39: F 61/967
- 15612 Hovenweep [National Monument]. [1967.] [2] p. il. f° folded into oblong 48° size. \* Paper, 10c. ● Item 650  
I 29.21: H 82/2/967
- 15613 Monumentos historicos nacionales de San Juan; [San Juan] National Historic Site, Puerto Rico. [1967.] [2] p. il. large 4° folded into narrow 8° size. [English and Spanish.] † ● Item 650  
I 29.21: Sa 5j/967

NATIONAL RAILROAD ADJUSTMENT BOARD  
Washington, D.C. 20572

- 15614 Awards 13471-525, 3d division, v. 146. Keenan Printing Company, Chicago, Ill. [1967]. [1]+1004 p. † Third Division, National Railroad Adjustment Board, 220 South State Street, Chicago, Ill. 60604 (Price upon application).  
L.C. card 36-26212  
RA 1.9: 146
- 15615 Awards 13526-635, 3d division, v. 147, Keenan Printing Company, Chicago, Ill. [1967]. [1]+1002 p. † Third Division, National Railroad Adjustment Board, 220 South State Street, Chicago, Ill. 60604 (Price upon application).  
L.C. card 36-26212  
RA 1.9: 147

NATIONAL SCIENCE FOUNDATION  
Washington, D.C. 20550

- 15616 Proceedings of conference on technology transfer and innovation, under auspices of National Planning Association and National Science Foundation, May 15-17, 1966. [1967.] [6]+126 p. 4° (NSF 67-5.) \* Paper, 65c. ● Item 834-C  
L.C. card 67-62467  
NS 1.2: T 22/3

NAVAL ACADEMY, Annapolis, Defense Dept.  
Annapolis, Md. 21402

- 15617 Annual register of United States Naval Academy, Annapolis, Md., June 8, 1966, 122d academic year [1966-67]. 1966 [published 1967]. xv+153 p. ([NAVPERS 15,019.]) † ● Item 389  
L.C. card 7-32067  
D 208.107: 966-67

**NAVAL AIR SYSTEMS COMMAND, Defense Dept.  
Washington, D.C. 20360**

NOTE.—The Naval Air Systems Command was established May 1, 1966, in the reorganization of the Navy Department. The Naval Weapons Bureau was disestablished on the same date and some of its field activities and employees assigned to the Naval Air Systems Command.

- 15618 U.S. naval weather service computer products manual [with lists of references; prepared by R. E. Hughes]. Mar. 1, 1967. ix+[267] p. il. 4° (NAVAIR 50-IG-522.) ‡ ● Item 374-B (Rev. 1966).

D 202.6/7: W 37/2

**NAVAL FACILITIES ENGINEERING COMMAND, Defense Dept.  
Washington, D.C. 20360**

- 15619 Definitive designs for naval shore facilities, July 1962, pt. 1, v. 1 and 2, Change 4; July 1965. [1965.] [6] leaves, il. oblong f° (NAVYDOCKS P-272, pt. 1, Change 4.) [Includes Publications transmittal. Issued in looseleaf form.] \* Paper, 55c. D 209.14: D 46/pt.1/v.1,2/ch.4
- 15620 — Change 5; Mar. 1967. Apr. 1967. [41] leaves, il. oblong f° (NAVDOCKS P-272 (1), Change 5.) [Includes Publications transmittal. Issued in looseleaf form.] \* Paper, \$1.75. ● Item 418-A

D 209.14: D 46/pt.1/v.1,2/ch.5

**NAVAL OBSERVATORY, Defense Dept.  
Washington, D.C. 20350**

- 15621 Air almanac, 1968, Jan.-Apr. 1967. p. 1-244+F4+A82 p. il. 4° [Text on p. 2-4 of cover. The F4 pages of collation consists of Navigational star chart mounted on cloth, with Stars, Jan.-Apr. 1968, Interpolation of G.H.A., Interpolation of moonrise, moonset, and Star index on verso. Produced jointly by H.M. Nautical Almanac Office, Royal Greenwich Observatory, and by Nautical Almanac Office, U.S. Naval Observatory. Printed separately in England and United States.] \* Stiffboard, \$3.25. ● Item 393
- L.C. card 52-61239 D 213.7: 96S/1
- 15622 Astronomical phenomena for [calendar] year 1970; issued by Nautical Almanac Office. 1966 [published 1967]. xxxv+[39] p. il. [Preprint of selected pages from American ephemeris and nautical almanac.] \* Paper, 40c. ● Item 396-A
- D 213.8/3: 970

Publications of Naval Observatory, 2d series, v. 18.

- 15623 pt. 6 [Micrometer measures of 1164 double stars, with list of references; by Charles E. Worley]. 1967. 133 p. large 8°. ‡ ● Item 398
- L.C. card A 67-7651 D 213.10: 18/pt.6

**NAVAL OCEANOGRAPHIC OFFICE, Defense Dept.  
Washington, D.C. 20390**

National Oceanographic Data Center publication: General series.

- 15624 G-12. Indian Ocean atlas, interpolated values of depth, salinity, and temperature on selected Sigma-t surfaces; compiled by Hydrodynamics Branch. 1967. v+61 p. il. oblong f° ‡ Paper, \$2.00.
- L.C. card MAP 67-68 D 203.24: G-12

Publications. ● Item 378 (Rev. 1957) D 203.22: (nos.)

- 15625 26. Change 10, May 27, 1967, loose leaf change pages for correcting Sailing directions for west coasts of Mexico and Central America, 9th edition, 1951. [1967.] [269] p. il. 4° [Formerly no. 84. Includes list of effective pages.] ‡ Paper, 35c.
- 15626 48. Change 7, July 15, 1967, loose leaf change pages for correcting Sailing directions for northern U.S.S.R., v. 2, 1st edition, 1954. [1967.] [200] p. il. 4° [Formerly no. 137E. Includes list of effective pages.] ‡ Paper, 35c.
- 15627 53. Change 6, July 1, 1967, loose leaf change pages for correcting Sailing directions for Mediterranean, v. 2, 5th edition, 1958. [1967.] [484] p. il. 4° [Formerly no. 152. Includes list of effective pages.] ‡ Paper, 35c.
- 15628 56. Change 10, Feb. 25, 1967, loose leaf change pages for correcting Sailing directions for Mediterranean, v. 5, 2d edition, 1952. [1967.] [262] p. 4° [Formerly 154B. Includes list of effective pages.] ‡ Paper, 35c.

\*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

- 15629 92. Change 7, July 8, 1967, loose leaf change pages for correcting Sailing directions for Philippine Islands, v. 3, 1st edition, 1956. [1967.] [326] p. il. 4° [Formerly no. 80. Includes list of effective pages.] † Paper 35c.
- 15630 94. Change 5, May 13, 1967, loose leaf change pages for correcting Sailing directions for coast of China, 6th edition, 1959. [1967.] [361] p. il. 4° [Formerly no. 124. Includes list of effective pages.] † Paper, 35c.

**NAVAL PERSONNEL BUREAU, Defense Dept.**  
Washington, D.C. 20390

- 15631 Construction electrician 3 and 2 [with reading list; prepared by Training Publications Division of Naval Personnel Program Support Activity, Washington, D.C.]. [Original edition 1949, revised, 1966.] [1967.] cover title, v+303 p. il. 4° (Navy training course; NAVPERS 10636-F.) †  
● Item 404  
L.C. card 64-60463 D 208.11: E1 2/6/966
- 15632 Educational services manual, 1967. [1967.] cover title, v+27+[83] p. 4° (NAVPERS 15229.) [Includes list of effective pages.] † ● Item 403-A  
D 208.6/3: Ed 8/2
- 15633 Organization and functions of Office of Judge Advocate General. [1st edition 1949, 3d edition 1967.] 1967. cover title, iv+146 p. il. 4° (NAVPERS 10843-B.) † ● Item 404  
L.C. card 67-62461 D 208.11/2: J 89/967
- 15634 Signalman 1 and C [with reading list; prepared by Training Publications Division, Naval Personnel Program Support Activity]. [Original edition 1959, revised 1967.] [1967.] cover title, iv+252 p. il. 4° (Navy training course; NAVPERS 10136-B.) [Some illustrations are colored.] †  
● Item 404  
L.C. card 67-62269 208.11: Si 2/2/967

**NAVAL RESEARCH OFFICE, Defense Dept.**  
Washington, D.C. 20390

Naval Training Device Center, Orlando, Fla.: Technical report NAVTRA DEVCEN (series).

- 15635 4717-1. Use of cuing in training tasks, phase 3 [with list of references; by] John Annett, Laura Paterson, Aug. 1967. cover title, iv+32+[2] p. 4° (University of Hull, Hull, Yorkshire, United Kingdom; contract N62-558-4717.) [Text on p. 2 of cover. Abstract cards inserted.] †  
D 210.14: 4717-1
- NRL reports. (Naval Research Laboratory.) D 210.8: (nos.)
- 15636 6503. Infrared spectra of plastics and resins: pt. 3, Related polymeric materials (elastomers) [with list of references; by] Dorothy S. Cain and Suzanne S. Stimler, Feb. 28, 1967. cover title, ii+28+[4] p. il. 4° ([NRL problem C07-01; project RR 001-01-43-4803.] † Paper, \$3.00 (AD 649004).
- 15637 6552. Microwave monitoring of sea water contamination of Navy fuel oils [with list of references; by] D. D. Howard [and others]. June 21, 1967. cover title, ii+18+[4] p. il. 4° ([NRL problems R02-13 and C01-10, project RF001-02141-4004 and SR 001-06-02-0600.] † Paper, \$3.00 (AD 655819).
- 15638 6557. Discrete finite Fourier transforms, tutorial approach [with list of references; by] D. A. Swick, June 29, 1967. cover title, ii+16+[4] p. 4° ([NRL problem S01-06; project RF 101-03-44-4054.] † Paper, \$3.00 (AD 656577)
- 15639 Training device guide [revised pages]. July 1, 1967. [30] p. il. 4° (NAVSO P-530-2-R1: Naval Training Device Center, Orlando, Fla.) [Issued in looseleaf form. Includes Change page notice 1.] †  
D 210.14/2: T 68/966/ch. 1

**NAVAL SUPPLY SYSTEMS COMMAND, Defense Dept.**  
Washington, D.C. 20360

NOTE.—The Bureau of Supplies and Accounts was abolished and its functions transferred to the Naval Supply Systems Command effective May 1, 1966.

- 15640 Food operations reference manual, [Oct. 30, 1964], 2d increment; Dec. 6, 1965. [1965.] iv+[88] p. il. 4° (NAVSANDA publication 421.) [Issued in looseleaf form. Contains copyright material.] \* Paper, 50c.  
D 212.6/3: F 73/2d incr.

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

- 15641 Food operations reference manual, [Oct. 30, 1964], 3d increment; July 31, 1967. [1967.] v+ [133] p. il. 4° (NAVSUP publication 421; Navy Subsistence Office.) [Issued in looseleaf form. Contains copyright material.] \* Paper, 70c. D 212.6/3: F 73/3d incr.

## PATENT OFFICE, Commerce Dept. Washington, D.C. 20231

- 15642 Manual of patent examining procedure [3d edition, Nov. 1961; revised pages]. [July 1967.] [72] p. 4° [Includes revision 13. Issued in looseleaf form.] \* Paper, \$4.00 (including basic manual and supplementary material for an indefinite period); \$1.00 additional for foreign mailing. ● Item 259 C 21.15: 961/rev.notice 13

## POST OFFICE DEPARTMENT Washington, D.C. 20260

- 15643 Address by Postmaster General Lawrence F. O'Brien before national convention of National Association of Post Office Mail Handlers, Watchmen, Messengers and Group Leaders, AFL-CIO, Detroit, Mich., Aug. 30, 1967. 1967. 8 leaves, 4° (Information Service; General release 118.) † P 1.27: Ob 6/25

### [Commemorative stamp posters.]

NOTE.—Commemorative stamp posters, which are issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.; 50c. additional for foreign mailing.

- 15644 3-cent Francis Parkman regular postage stamp on sale Sept. 16, 1967 at Boston, Mass. 1967. 10.5 x 8 in. P 1.26/2: P 23  
15645 5-cent Finland independence commemorative postage stamp available at your local post office Oct. 9, 1967. 1967 10.5 x 8 in. P 1.26/2: F 49/2  
15646 5-cent urban planning commemorative postage stamp available at your local post office Oct. 3, 1967. 1967. 10.5 x 8 in. P 1.26/2: Ur 1  
15647 20-cent George C. Marshall regular postage stamp on sale Oct. 24, 1967 at Lexington, Va. 1967. 10.5 x 8 in. P 1.26/2: M 35  
15648 \$1 Eugene O'Neill regular postage stamp on sale Oct. 16, 1967 at New London, Conn. 1967. 10.5 x 8 in. P 1.26/2: On 2

### State postal maps.

- 15649 Alabama, Apr. 24, 1964. Scale 50 m.=6.2 in. [1966.] 48 x 33 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: Ar 4k  
Inset:  
Birmingham and vicinity.  
15650 Arizona, Dec. 1, 1964. Scale 60 m.=5 in. [1966.] 40 x 33 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: Ar 4l  
15651 Arkansas, May 26, 1965. Scale 50 m.=5.5 in. [1966.] 33 x 35 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: Ar 4k  
15652 Colorado, Nov. 1, 1964. Scale 30 m.=3 in. [1966.] 36 x 52 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: C 71  
Inset:  
Denver area.  
15653 Idaho, July 1, 1964. Scale 50 m.=4.1 in. [1966.] 46 x 34 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: Id 1  
15654 Iowa, Mar. 11, 1964. Scale 30 m.=4.3 in. [1966.] 35 x 51 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: Io 9  
15655 Kansas, Aug. 1, 1964. Scale 40 m.=4 in. [1966.] 29 x 52 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: K 13  
15656 Kentucky, Sept. 30, 1964. Scale 30 m.=4.2 in. [1966.] 30 x 59 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: K 41  
15657 Louisiana, July 29, 1965. Scale 40 m.=4.4 in. [1966.] 35 x 39 in. [Reprinted July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to service lines.] \* Paper, 35c. P 1.39/2: L 93  
15658 Michigan, June 1, 1966. Scale 40 m.=4.4 in. [1967.] 51 x 36 in. \* Paper, 35c. P 1.39/2: M 58  
Inset:  
Detroit and vicinity.  
15659 Minnesota, Sept. 23, 1965. Scale 40 m.=4 in. [1967.] 45 x 36 in. \* Paper, 35c. P 1.39/2: M 66

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



## Inset:

- St. Paul-Minneapolis area.  
 15660 Mississippi, Oct. 26, 1965. Scale 40 m.=5 in. [1967.] 48 x 33 in. \* Paper, 35c.  
 P 1.39/2: M 691  
 15661 Montana, Sept. 1, 1964. Scale 70 m.=5.8 in. [1966.] 34 x 52 in. [Reprinted  
 July 1, 1966, to reflect SCF boundaries and ZIP codes without correction to  
 service lines.] \* Paper, 35c.  
 P 1.39/2: M 76  
 15662 Nebraska, May 12, 1965. Scale 40 m.=4 in. [1966.] 29 x 52 in. [Reprinted July 1,  
 1966, to reflect SCF boundaries and ZIP codes without correction to service  
 lines.] \* Paper, 35c.  
 P 1.39/2: N 27  
 Inset:  
 Omaha and vicinity.

PRESIDENT OF UNITED STATES  
 Washington, D.C. 20501

- 15663 Educational Opportunity Bank, report of Panel on Educational Innovation  
 to Commissioner of Education, Director of National Science Foundation,  
 and Special Assistant to the President for Science and Technology. Aug.  
 1967. vii+21 p. \* Paper, 15c. ● Item 851-J  
 L.C. card 67-62449 Pr 35.8: Sci 2/Ed 8/2
- 15664 Employment assistance for the handicapped, directory of Federal and State  
 programs to help the handicapped to employment. [1967.] cover title,  
 [3]+37 p. (President's Committee on Employment of the Handicapped.)  
 [Text on p. 2 of cover.] † President's Committee on Employment of  
 the Handicapped, 7131 Department of Labor Bldg., Washington, D.C.  
 20210 ● Item 766-C PrEx 1.10: Em 7
- 15665 MR 67, 1st report to the President on Nation's progress and remaining great  
 needs in campaign to combat mental retardation. [1967.] cover title, iv+  
 32 p. il. 4° (President's Committee on Mental Retardation.) \* Paper,  
 50c. ● Item 851-J  
 L.C. card 67-62450 Pr 36.8: M 52/R 29/967
- National Advisory Commission on Food and Fiber [technical papers].
- 15666 v. 2. Cotton and other fiber problems and policies in United States [articles, with  
 bibliographies]. July 1967. xvii+213 p. il. \* Paper, \$1.00. ● Item  
 851-J Pr 36.8: F 73/T 22/v.2
- 15667 President's Committee on Employment of the Handicapped announces its  
 20th annual Ability counts survey contest for 11th and 12th grade high  
 school students, 1968 theme: Challenge of employment barriers to handi-  
 capped, community survey. [1967.] [4] p. il. 4° † President's Committee  
 on Employment of the Handicapped, 7131, Department of Labor Build-  
 ing, Washington, D.C. 20210 ● Item 766-C PrEx 1.10/6: 968
- 15668 Rural poverty, hearings before National Advisory Commission on Rural  
 Poverty, Tucson, Ariz., Jan. 26 and 27, 1967. Sept. 1967. vi+403 p.  
 † Agriculture Department, Washington, D.C. 20250. ● Item 851-J  
 L.C. card 67-62452 Pr 36.8: R 88/R 88/967

PUBLIC DOCUMENTS DIVISION, Government Printing Office  
 Washington, D.C. 20402

Price list PL (series). † ● Item 554 GP 3.9: (nos.)

- 15669 19. Army, field manuals and technical manuals; Sept. 1967. 55th edition. [1967.]  
 [2]+12 p.  
 L.C. card 26-26487
- 15670 36. Government periodicals and subscription services; Aug. 1967. 127th edition.  
 [1967.] [2]+35 p.  
 L.C. card 26-26170
- 15671 55. Smithsonian Institution, National Museum and Indians; Sept. 1967. 40th  
 edition. [1967.] [2]+7 p.  
 L.C. card 25-27429
- 15672 67. Immigration, naturalization, and citizenship; Sept. 1967. 47th edition. [1967.]  
 [2]+4 p.  
 L.C. card 26-26387
- 15673 7 aids to home canning and food preservation [announcement and order  
 form]. [1967.] 2 p. narrow 8° † ● Item 552 GP 3.22: H 75/7/967

♣For Sale by Clearinghouse, U.S. Department of  
 Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept.  
Washington, D.C. 20201

- 15674 Aberrant cells, nature of cancer, 35 mm filmstrip; [prepared by Research Information Branch, National Cancer Institute, National Institutes of Health]. [1967.] [2]+19+[1] p. il. oblong 16° † ● Item 507  
FS 2.22: C 16/30
- 15675 Alcohol and alcoholism [with bibliography and list of suggested supplementary reading; produced by Public Information Branch]. [1967.] xi+73 p. ([Publication 1640; National Clearinghouse for Mental Health Information], National Institute of Mental Health, National Center for Prevention and Control of Alcoholism.) \* Paper, 50c. ● Item 507  
L.C. card 67-62367 FS 2.22: A 1/5
- 15676 Careers in U.S. Public Health Service [pharmacist]. [1967.] [8] p. il. narrow 8° ([Publication 1648.]) † ● Item 485 FS 2.2: P 49/2
- 15677 Congenital heart disease, review of research grants supported by National Heart Institute, 1949-66 [with list of references]; by May Sherman. [1967.] x+296 p. 4° ([Publication 1684]; National Institutes of Health, National Heart Institute, Extramural Programs.) [Subject index by Ellen M. Barnes, bibliography by Elizabeth B. Ingram.] † ● Item 507  
L.C. card 67-62349 FS 2.22: H 35/9
- 15678 Coronary Drug project; [prepared by Collaborative Studies Program and Heart Information Center, National Heart Institute, National Institutes of Health]. [Sept. 1967.] cover title, 12 p. il. oblong 12° ([Publication 1695.]) \* Paper, 25c. ● Item 507  
L.C. card 67-62369 FS 2.22: C 81
- 15679 Dental internships in U.S. Public Health Service hospitals. [1967.] cover title, [8] p. il. narrow 8° ([Publication 1639; Division of Direct Health Services.]) † ● Item 496-B FS 2.89/2: 967
- 15680 Directory of State and territorial health authorities, 1967. [1967 revision.] [1967.] v+112+3 p. ([Publication 75]; Office of Surgeon General, Office of Comprehensive Health Planning.) \* Paper, 50c. ● Item 483-B  
L.C. card 24-26996 FS 2.77/2: 967
- Environmental health series: Radiological health. (National Center for Radiological Health, Rockville, Md.) ● Item 483-F  
FS 2.300: RH-(nos.)
- 15681 RH-24. Distribution of cobalt 60, zinc 65, strontium 85, and cesium 137 in freshwater pond [with list of references; by] William A. Brungs, jr. Mar. 1967. vi+52+[1] p. il. ([Publication 999-RH-24.]) [Abstract cards attached to back cover.] † (Limited distribution) Public Inquiries Branch, Public Health Service, U.S. Department of Health, Education, and Welfare, Washington, D.C. 20201  
L.C. card 67-60035
- 15682 RH-25. Radionuclide standardization, bibliography; [by] George I. Coats. [Apr. 1967.] vii+31+[1] p. ([Publication 99-RH-25.]; Bureau of Disease Prevention and Environmental Control.) [Abstract cards attached to back cover.] † Public Inquiries Branch, Public Health Service, Department of Health, Education, and Welfare, Washington, D.C. 20201.  
L.C. card 67-60045
- Urban and industrial health. (Bureau of Disease Prevention and Environmental Control, National Center for Urban and Industrial Health.) † ● Item 483-F FS 2.300: UIG-(nos.)
- 15683 UIH-1. Northwest Shellfish Sanitation Research Planning Conference, 1966 proceedings [with lists of references; by] W. J. Beck and J. C. Hoff. 1967. [2]+iii+88 p. il. 4° ([Publication 999-UIH-1]; Shellfish Sanitation Branch, Water Supply and Sea Resources Program.)  
L.C. card 66-60430
- 15684 UIH-3. Feasibility of mass, outdoor cultivation of *Gonyaulax catenella* [with list of references; by] Joseph M. Cummins, Clarence L. Law, William F. Hill, jr. July 15, 1966 [published 1967]. vii+20 p. il. 4° ([Publication 999-UIH-3]; Water Supply and Sea Resources Program.)  
L.C. card 67-62471

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

## Health economics series.

- 15685 1-A. Medical care financing and utilization, selected revisions. [Feb. 1967.] ix+74 p. 4° ([Publication 947-1A]; Division of Medical Care Administration, Health Economics Branch.) [Updates and partially revises Medical care financing and utilization source book of data through 1961, which was issued in 1962 as Health economics series no. 1 and PHS publication no. 947-1.] \* Paper, 50c. • Item 496-D FS 2.99:1-A

## Health information series. • Item 486

FS 2.50:(nos.)

- 15686 76. Cancer, what to know, what to do about it; [prepared by Research Information Branch, National Cancer Institute, National Institutes of Health.] [Revised 1967.] [1967.] [8] p. il. narrow 8° ([Publication 375.]) \* Paper, \$3.25 per 100; single copy, 5c.
- 15687 112. Pesticides; [prepared by Pesticides Program (formerly Office of Pesticides) National Communicable Disease Center]. [Revised Feb. 1967.] [1967.] [8] p. narrow 8° ([Publication 1081; Bureau of Disease and Environmental Control.]) \* Paper, \$3.25 per 100; single copy 5c.

## Health mobilization series. (Division of Health Mobilization.)

- 15688 G-2. Preparing hospital plant for emergencies [articles, with bibliography]. 1967. iii+58 p. il. ([Publication 1071-G-2.]) [Text on p. 2 of cover.] \* Paper, 25c. • Item 486-E FS 2.302:G-2
- 15689 Histopathology laboratory procedures of Pathologic Anatomy Branch of National Cancer Institute [with list of general references; by] Mary C. Bowling. [1967.] vi+125 p. ([Publication 1595.]) \* Paper, 75c. • Item 507-H

L.C. card 67-62445

FS 2.22/15:H 62

## Hospital and medical facilities series (Hill-Burton program); [Category C, Organization-administration].

- 15690 C-17. Environmental aspects of hospital; v. 3, Safety fundamentals [articles, with bibliographies]. [July 1967.] vii+49 p. il. 4° ([Publication 930-C-17]; Division of Hospital and Medical Facilities and Division of Environmental Engineering and Food Protection.) [Text on p. 2 of cover.] \* Paper, 40c. • Item 486-D

L.C. card 67-61227

FS 2.74/3:C-17

## — [Category D], Design-equipment. ([Division of Hospital and Medical Facilities, Architectural, Engineering, and Equipment Branch.])

- 15691 D-4. Hospital and nursing home equipment planning guide. [Revised 1967.] [1967.] cover title, [61+93 p. il. 4° ([Publication 930-D-4.]) \* Paper, 50c. • Item 486-D

L.C. card 67-62476

FS 2.74/3:D-4/3

## — [Category F], Reports, analyses. (Division of Hospital and Medical Facilities.)

- 15692 F-11. Proceedings, 1966 conference of Hill-Burton and mental retardation construction authorities with Surgeon General, Dec. 5-8, 1966, Washington, D.C. [May 1967.] v+57 p. il. 4° ([Publication 930-F-11.]) \* Paper, 45c. • Item 486-D

L.C. card 56-4525

FS 2.74/3:F-11

- 15693 Jobs happen, careers don't. [1967.] [8] p. il. narrow 8° † • Item 485

FS 2.2:J 57/3

- 15694 KW1C index to Journal of Health Physics Society (1958-66); compiled by Medical and Occupational Radiation Program, assisted by Data Systems and Mathematics Section, Technical Services Branch. May 1967. viii+256+[1] p. 4° ([Publication 1663]; Bureau of Disease Prevention and Environmental Control, National Center for Radiological Health.) † • Item 485

L.C. card 67-62574

FS 2.2:H 34/34/958-66

- 15695 Medical examiners' and coroners' handbook on death and fetal death registration. [1967.] vi+50 p. ([Publication 593-D]; National Center for Health Statistics.) \* Paper, 25c. • Item 509 FS 2.106/2:M 46

- 15696 Mental health digest. (National Clearinghouse for Mental Health Information, [National Institute of Mental Health.]) [Irregular.] † • Item 507-T

FS 2.22/50-5:(date)

Aug. 1967—

## Mental health statistics, current facility reports, series MHB. (National Institute of Mental Health.)

- 15697 H-11. Provisional patient movement and administrative data, State and county mental hospitals, United States, 1966. Jan. 1967. 10 p. il. 4° † • Item 491-A

FS 2.53/2:H-11

# GOVERNMENT PUBLICATIONS

- 15698 Minimum sanitary standards for community infant formula services; prepared by Bureau of Disease Prevention and Environmental Control, National Center for Urban and Industrial Health, Cincinnati, Ohio. [1967.] v+29 p. ([Publication 1625.]) [Prepared in cooperation with American Academy of Pediatrics, Evanston, Ill.] \* Paper, 20c. ● Item 496-A  
L.C. card 67-62368 FS 2.6/2: In 3
- 15699 Neurological information network of National Institute of Neurological Diseases and Blindness. [1967.] [6] p. narrow 8° ([Publication 1691.])  
† ● Item 507 FS 2.22: N 39/2
- 15700 NIH library translations index, supp. 3, 1966. [1]+xi+65 p. 4° (Translating Unit, Readers Services Section, Library Branch, Division of Research Services, National Institutes of Health.) †  
L.C. card 64-62763 FS 2.22: T 68/2/954-63/supp.3
- 15701 Nurse supply and needs, current nursing statistics in brief, 1967. [Revised 1967.] [1967.] [6] p. oblong 48° ([Publication 1534; Bureau of Health Manpower, Division of Nursing.]) † ● Item 485 FS 2.2: N 93/59/967
- 15702 Partnership for health, information and policies on grants to States for comprehensive health planning, sec. 314(a) Public Health Service act, as amended by Public law 89-749. [Aug. 15, 1967.] [3]+20 p. 4° (Office of Surgeon, Office of Comprehensive Health Planning.) † ● Item 485  
FS 2.2: G 76/4
- 15703 Proceedings of national workshop on bioengineering research and manpower, sponsored by Division of Research Grants, National Institutes of Health, Bethesda, Md., held at Philadelphia, Pa., Nov. 9, 1965; co-editors Richard J. Gowen [and] Errett C. Albritton. [1967.] [3]+94 p. 4° ([Publication 1658.]) † ● Item 507  
L.C. card 67-62366 FS 2.22: B 52/5
- 15704 Proceedings, 3d National Conference on Air Pollution, Washington, D.C., Dec. 12-14, 1966 [with lists of references; prepared by Office of Legislative and Public Affairs, National Center for Air Pollution Control]. [1967.] xvi+667 p. il. 4° ([Publication 1649.]) [Publication number incorrectly given on p. 4 of cover as 1669.] \* Paper, \$4.25. ● Item 492-D  
L.C. card 59-60734 FS 2.98: P 94/966
- Public health bibliography series.
- 15705 45. Bibliography on smoking and health, with English abstracts of foreign items, 1967 cumulation. [1967.] v+523 p. 4° ([Publication 1124]; Bureau of Disease Prevention and Environmental Control, National Center for Chronic Disease Control, National Clearinghouse for Smoking and Health.) [Replaces Bibliography on Smoking and Health 1958-63 and its 1963-64 supplements.] \* Paper, \$2.75. ● Item 481-A  
L.C. card 64-61433 FS 2.21: 45/2
- 15706 Public Health Service grants and awards, fiscal year 1966 funds: pt. 5, Summary tables and graphic highlights; [prepared by National Institutes of Health, Division of Research Grants, Statistics and Analysis Branch]. [1967.] xi+778 p. il. ([Publication 1564, pt. 5.]) \* Paper, \$2.00. ● Item 507-D  
L.C. card 48-2277 FS 2.22/7: 966/pt.5
- 15707 Research grant program of National Institute of Mental Health, sourcebook of descriptive data, fiscal year 1965; [prepared by Program Analysis Section, Division of Extramural Research Programs, National Institute of Mental Health. [1967.] v+28 p. 4° ([Publication 1620; National Clearinghouse for Mental Health Information.]) \* Paper, 25c. ● Item 507  
L.C. card 66-61706 FS 2.22: M 52/59/965
- Research report.
- 15708 3. Drugs vs. cancer. [1967.] iii+17 p. 12° ([Publication 1652]; Research Information Branch, National Cancer Institute, National Institutes of Health.) \* Paper, 15c. ● Item 507-V FS 2.22/32: 3
- \*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

# OCTOBER 1967

- 15709 Safety tips in, on, and around water. [1967.] [4] p. il. 48° [Prepared in cooperation with American National Red Cross.] \* Paper, 75c per 100, single copy 5c. FS 2.6/2: Sa 1
- 15710 Schools offering nurse traineeship for full time academic study, 1967-68, under professional nurse traineeship program of Public Health Service. [Revised June 1967.] [1967.] 18 p. ([Supplement A to publication 1154-1; Bureau of Health Manpower, Division of Nursing.]) † ● Item 485 FS 2.2: N 93/38/supp.-2/967
- 15711 Special nurse research fellowship, predoctoral and postdoctoral, general information. [1967.] 7 p. ([Publication 1650; Bureau of Health Manpower, Division of Nursing.]) † ● Item 485 FS 2.2: N 93/61
- 15712 Special report on emphysema. [1967.] cover title, 16 p. il. ([Publication 1699; National Institutes of Health, National Institute of Allergy and Infectious Diseases.]) [Text on p. 3-4 of cover.] † ● Item 507 FS 2.22: Em 7
- 15713 Traineeships for professional health personnel under public health traineeship program. Revised June 1967. [1967.] [2] p. 4° folded into oblong 48° size. (Publication 1147.) † ● Item 485 FS 2.2: T 68/4/967
- 15714 Training homemaker-home health aide in personal care [with bibliography; by E. C. Gilbertson]. [June 1967.] [1]+[12] p. ([Publication 1656; Division of Medical Care Administration.]) \* Paper, 10c. ● Item 485 FS 2.2: H 34/32
- Vital and health statistics: Series 21, Data from National Vital Statistics System. (National Center for Health Statistics.)
- 15715 12. Fertility and educational attainment, Puerto Rico, 1962 [with list of references; by Frank H. Godley]. Sept. 1967. [6]+20 p. il. 4° ([Publication 1000, series 21, no. 12; Division of Vital Statistics.]) \* Paper, 25c. ● Item 500-E FS 2.85/2: 21/no.12  
L.C. card 67-60079
- Vital statistics of United States, 1965. ([National Center for Health Statistics, Division of Vital Statistics.]) ● Item 510 FS 2.111: 965/v. (nos.)
- 15716 v. 1. Natality, 1967. [249] p. 4° \* Cloth, \$2.75  
L.C. card 40-26272
- 15717 v. 2. Mortality, pt. B. 1967. [4]+564+17 p. 4° \* Cloth, \$4.50.  
L.C. card 40-26272

## PUBLIC ROADS BUREAU, Transportation Dept. Washington, D.C. 20591

- 15718 Guidelines for trip generation analysis [with lists of references]; prepared by Urban Development Branch, Urban Planning Division, Office of Planning. June 1967. xii+118 p. il. 4° \* Paper, 65c. ● Item 265-A  
TD 2.108: T 73

## RAILROAD RETIREMENT BOARD Chicago, Ill. 60611

- 15719 Railroad retirement act and Railroad unemployment insurance act, as amended through Oct. 30, 1966. 1967. v+121 p. \* Paper, 35c. ● Item 860  
L.C. card 45-35547 RR 1.5: R 31/966

## RECLAMATION BUREAU, Interior Dept. Washington, D.C. 20240

- 15720 Publications available for sale. July 1967. cover title, [3]+24 p. (Office of Chief Engineer, Denver Federal Center, Denver, Colo.) [Semiannual.] †  
I 27.10/2: 967/2

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## RENEGOTIATION BOARD Washington, D.C. 20446

- 15721 Index to Renegotiation rulings and Renegotiation bulletins; [June 1, 1967]. [1967.] 5 p. 4° [Issued with perforations.] \* Paper, 5c. ● Item 308  
RnB 1.6/5: ind.
- Renegotiation bulletins. [Issued with perforations.] ● Item 308  
RnB 1.6/3: (nos.)
- 15722 11. Cost allowances and disallowances. Revised [June 6, 1967]. [1967.] 2 p. 4°  
\* Paper, \$2.25 per 100; single copy 5c.
- 15723 18. Treatment of short and seconds in segregation of subcontractors' sales in textile industry. Revised [June 13, 1967]. 1967. 1 p. 4° [Supersedes Renegotiation bulletins 18 and 18A.] \* Paper, 5c.
- 15724 Table of citations [sections of Renegotiation act of 1951 and Renegotiation Board regulations cited in or affected by Renegotiation rulings and Renegotiation bulletins; June 1, 1967]. [1967.] 3 p. 4° [Issued with perforations.] \* Paper, 5c. ● Item 308  
RnB 1.6/5: tab.cit.

## RENEWAL ASSISTANCE ADMINISTRATION, Housing and Urban Development Dept., Washington, D.C. 20410

NOTE.—The Renewal Assistance Administration has been established in the Department of Housing and Urban Development for the conduct of slum clearance and urban renewal programs, and loans for rehabilitation. Since these programs were formerly administered by the Urban Renewal Administration, the HH7. class will be used for the new Administration.

- 15725 Urban renewal directory, Dec. 31, 1966. May 1967. cover title, 106 p. 4° (SOR 7-2; [Program Control and Statistics Branch.]) [Semiannual Illustration on p. 1 of cover.] †  
HH 7.8/2: 966/3
- 15726 Urban renewal project characteristics, June 30, 1967. [May 1967.] cover title, 63 p. 4° ([SOR-31; Program Control and Statistics Branch.]) [Illustration on p. 1 of cover.] †  
L.C. card 56-63831  
HH 7.8: 966

## SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

- 15727 Work of Securities and Exchange Commission; May 1967. [1967.] ix+25 p. il. † ● Item 904  
L.C. card 64-61176  
SE 1.2: Se 26/3/967

## SELECTIVE SERVICE SYSTEM Washington, D.C. 20435

- 15728 Taking appeals from selective service classifications. [1967.] [4] p. narrow 8° † ● Item 1075  
Y 3.Se 4: 2 Ap 4/967

## SMALL BUSINESS ADMINISTRATION Washington, D.C. 20416

- 15729 Association and Industry Management Service for Small Business. [Aug. 1967.] [6] p. il. narrow 8° ([Office of Public Information: OPI-24]) †  
● Item 901-B  
SBA 1.2: 31/10
- 15730 Machine tool financing. [Aug. 1967.] [6] p. il. narrow 8° (OPI-39.) †  
● Item 901-B  
SBA 1.2: M 18
- Small business bibliographies. † ● Item 901-K  
SBA 1.3: (nos.)
- 15731 44. Job printing shop; by William W. Thompson, jr. Mar. 1967. 6 p. il. 4°
- 15732 48. Furniture retailing; by J. Wade Rice. Apr. 1967. 8 p. 4°
- Starting and managing series.
- 15733 v. 14. Starting and managing a carwash [with lists of publications for further information]; by Myer R. Chidake. 1967. vii+76 p. il. \* Paper, 35c.  
● Item 901-L  
L.C. card 67-62441  
SBA 1.15: 14

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

**SMITHSONIAN INSTITUTION**  
Washington, D.C. 20560

Publications in salvage archeology; series editor Warren W. Caldwell.

- 15734 5. Pony Creek archeology [with list of literature cited]; by Lionel A. Brown. Lincoln, Nebr., 1967. [1]+v+121 p. il. (River Basin Surveys; Office of Anthropology.) †  
L.C. card 67-62446 SI 1.22 : 5
- 15735 Smithsonian Institution, art, aviation and space exploration, history and technology, natural history, zoological park. [1967.] [8] p. il. narrow 8°  
† ● Item 910 SI 1.2 : Sm 6/18/967

**SOCIAL SECURITY ADMINISTRATION, Health, Education, and  
Welfare Dept., Washington, D.C. 20201**

Actuarial note.

- 15736 38. Analysis of fertility assumptions for OASDI long-range level-cost estimates; by Robert J. Myers and Francisco Bayo. June 1967. [6] p. 4° (Office of Actuary.) †  
FS 3.19/2 : 38
- 15737 Data processing in Social Security Administration, nine lectures [with bibliography]; by Joseph L. Fay. [1967.] v+58 p. il. 4° (Office of Research and Statistics.) \* Paper, 40c. ● Item 516  
L.C. card HEW 67-149 FS 3.10 : F 29
- 15738 Directory of providers of services, title 18, health insurance for the aged: Extended care facilities. Apr. 1967. cover title, [161] p. 4° \* Paper, 75c.  
● Item 515-A  
L.C. card HEW 67-150 FS 3.51/3 : 967

OASI (series).

- 15739 881e. Special message about medicare for railroad retirement beneficiaries who receive social security payments. [1967.] [4] p. 4° † ● Item 518-A  
FS 3.35 : 881e
- 15740 Rights and responsibilities of those who receive special payments. [1967.] [1]+15 p. narrow 12° (SSA-1421 (5-67).) † ● Item 516  
FS 3.2 : R 44/2/967

SSI-(series). ● Item 523-B

FS 3.52 : (nos.)

- 15741 15. Social security information for crew leaders and farmers. [Apr. 1967.] 8 p. il. oblong 48° [Joint publication of Internal Revenue Service, Treasury Dept., IRS publication 365. Includes agricultural employer's application form for identification number under Federal Insurance contributions act.] †  
L.C. card HEW 61-50
- 15742 35b. Social security information for young families. [Apr. 1967.] [1]+15+[1] p. il. \* Paper, 10c.

TIB-(series).

- 15743 2. School certification of full-time attendance for social security purposes. July 1967. [2]+10 p. † ● Item 523-C  
FS 3.52/2 : 2
- 15744 Your duties as representative payee. [1967.] [1]+13 p. il. narrow 12° (SSA-779 (5-67).) † ● Item 520  
FS 3.6 : P 29/967

**SOIL CONSERVATION SERVICE, Agriculture Dept.  
Washington, D.C. 20250**

- 15745 National handbook for range and related grazing lands. [1967.] cover title, [84] p. il. 4° [Issued with perforations.] † ● Item 120-A  
A 57.6/2 : R 16
- 15746 Soil survey: Comanche County, Okla.; [by Hubert L. Mobley and R. C. Brinlee]. Aug. 1967. cover title, ii+58 p. il. 98 p. of pl. and maps, 1 tab. 4° [Prepared in cooperation with Oklahoma Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$1.50. ● Item 102 (Rev. 1957).  
L.C. card Agr 67-284 A 57.38 : C 73
- 15747 — Delta-Montrose area, Colo.; [by A. J. Cline and others]. July 1967. cover title, ii+73 p. il. 52 p. of pl. and maps, 1 tab. 4° [Prepared in cooperation with Colorado Agricultural Experiment Station. Text on p.

♦For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

Page 67



# GOVERNMENT PUBLICATIONS

2 of cover. One map is colored.] \* Paper, \$2.75. ● Item 102-A (Rev. 1957)  
L.C. card Agr 67-286 A 57.38: D 38

15748 Soil survey: Gwinnett County, Ga. (with list of literature cited; by Ray J. Tate]. July 1967. cover title, [1]+94 p. il. 64 p. of pl. and maps, 1 tab., map in pocket, 4° [Prepared in cooperation with University of Georgia College of Agriculture Agricultural Experiment Stations. Text on p. 2 of cover. Map in pocket is colored.] \* Paper, \$3.75. ● Item 102 (Rev. 1957)  
L.C. card Agr 67-310 A 57.38: G 99

15749 — Zuni Mountain area, N. Mex. [with list of literature cited; by John A. Williams]. July 1967. cover title, ii+86 p. il. 30 p. of pl. and maps, 1 tab. 4° [Prepared in cooperation with Forest Service and New Mexico Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$2.00. ● Item 102 (Rev. 1957)  
L.C. card Agr 67-287 A 57.38: Z 87

15750 Water supply outlook, Federal-State-private cooperative snow surveys; Special snow report for Colorado, prepared by Jack N. Washichek and Donald W. McAndrew. May 15, 1967. 1 p. 4° (Snow Survey Section, Soil Conservation Service [and] Colorado State University.) †  
A 57.2: Sn 6/16

## SPECIAL REPRESENTATIVE FOR TRADE NEGOTIATIONS, OFFICE OF, Executive Office of the President, Washington, D.C. 20506

15751 General agreement on tariffs and trade, 1964-67 trade conference, Geneva, Switzerland, report on United States negotiations: v. 1, General summary. [1967.] 2 pts. in 1, [4]+xii+184 p. \* Paper, 55c. ● Item 857-G-1  
L.C. card 67-62212 PrEx 9.2: T 17/v.1/pt.1,2  
pt. 1. Concessions by country.  
pt. 2. Special multilateral negotiations.

## STATE DEPARTMENT Washington, D.C. 20520

15752 Atlantic community, selected bibliography. [1967.] 15 leaves, 4° (Foreign Service Institute, Center for Area and Country Studies.) [Leaf 15 incorrectly numbered 16.] †  
S 1.114/3: At 6

Background notes. ([Office of Media Services, Bureau of Public Affairs.]) [Issued with perforations.] ● Item 862-B

15753 Cambodia [with bibliography]. [Revised June 1967.] [1967.] 5 p. il. 4° ([Publication 7747.]) \* Paper, 5c.  
L.C. card 66-61561 S 1.123: C 14/967

15754 Costa Rica [with bibliography]. [Revised July 1967.] [1967.] 4 p. il. 4° ([Publication 7768.]) \* Paper, 5c.  
L.C. card 66-61561 S 1.123: 82/967

15755 Finland [with bibliography]. [July 1967.] 7 p. il. 4° ([Publication 8262.]) \* Paper, 5c.  
L.C. card 65-60213 S 1.123: F 49

15756 Japan [with bibliography]. [Revised July 1967.] [1967.] 12 p. il. 4° ([Publication 7770.]) \* Paper, 10c.  
L.C. card 66-61561 S 1.123: J 27/967

15757 Nepal [with bibliography]. [Revised June 1967.] [1967.] 5 p. il. 4° ([Publication 7904.]) \* Paper, 5c.  
L.C. card 66-61561 S 1.123: N 35

15758 Netherlands Antilles [with bibliography]. [July 1967.] 4 p. il. 4° ([Publication 8223.]) \* Paper, 5c.  
L.C. card 65-60213 S 1.123: N 38/2

15759 Republic of Congo (Brazzaville) [with bibliography]. [Revised July 1967.] [1967.] 4 p. il. 4° ([Publication 7896.]) \* Paper, 5c.  
L.C. card 66-61561 S 1.123: C 76/2/967

5760 Rwanda [with bibliography]. [Revised July 1967.] [1967.] [4] p. il. 4° ([Publication 7916.]) \* Paper, 5c.  
L.C. card 66-61561 S 1.123: R 94/967

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# OCTOBER 1967

- 15761 Saudi Arabia. [Revised June 1967.] [1967.] 4 p. il. 4° ([Publication 7835.])  
\* Paper, 5c.  
L.C. card 66-61561 S 1.123: Sa 8/967
- 15762 Singapore [with bibliography]. [June 1967.] 4-[1] p. il. 4° ([Publication 8240.]) \* Paper, 5c.  
L.C. card 65-60213 S 1.123: S1 6
- 15763 Eastern Europe and USSR, selected functional bibliography. [Aug. 1967.]  
40 p. 4° (Foreign Service Institute, Center for Area and Country  
Studies.) † S 1.114/3: Eu 7
- 15764 Telephone directory, Department of State, Agency for International De-  
velopment, Arms Control and Disarmament Agency. Aug. 1967. cover  
title, 168+[8] p. il. 4° [Text on p. 2-4 of cover.] \* Paper, 75c.  
S 1.21: 967-3
- Treaties and other international acts series. \* Paper, \$10.00 a yr. (ap-  
proximately 150 issues), \$6.00 additional for foreign mailing; single  
copies vary in price. ● Item 899 S 9.10: (nos.)
- 15765 6168. Agricultural commodities, sales under title 4, agreement between United  
States and Ecuador, amending agreement of June 25, 1965, effected by  
exchange of notes signed Quito Oct. 24, 1966; [entered into force Oct.  
24, 1966]. [1967.] [2]+4 p. [English and Spanish.] \* Paper, 5c.  
L.C. card 67-62423
- 15766 6237. Trade in cotton textiles, agreement between United States and Portugal,  
effected by exchange of notes signed Lisbon Mar. 23, 1967; [entered  
into force Mar. 23, 1967, effective Jan. 1, 1967. [1967.] [2]+14 p.  
\* Paper, 10c.  
L.C. card 67-62233
- 15767 6239. Marriage, documentary requirements for United States citizens in Italy,  
agreement between United States and Italy, effected by exchange of notes  
signed Rome July 29 and Aug. 18, 1964; [entered into force Mar. 26,  
1966]. [1967.] [2]+4 p. [English and Italian.] \* Paper, 5c.  
L.C. card 67-62326
- 15768 6253. Technical cooperation, agreement between United States and Afghanistan,  
extending agreement of June 30, 1953, as extended, effected by ex-  
change of notes signed Kabul Dec. 26, 1966, and Apr. 16 and 29, 1967  
[entered into force Apr. 29, 1967; effective Dec. 31, 1966. [1967.] [2]+  
4 p. [English and Afghan.] \* Paper, 5c.  
L.C. card 67-62234
- 15769 6254. Canada pension plan, agreement between United States and Canada, signed  
Ottawa, May 5, 1967; [entered into force May 5, 1967; effective Jan. 1,  
1967]. [1967.] [2]+7 p. [English and French.] \* Paper, 10c.  
L.C. card 67-62327
- 15770 6255. Education, educational foundation and financing of exchange programs,  
agreement between United States and Australia, amending agreement of  
Aug. 28, 1964, effected by exchange of notes dated Canberra May 12, 1967;  
[entered into force May 12, 1967. [1967.] [2]+3 p. \* Paper, 5c.  
L.C. card 67-62328
- 15771 6257. Extension of loan of vessel, agreement between United States and New  
Zealand, effected by exchange of notes dated Washington Dec. 15, 1966,  
and May 5, 1967; [entered into force May 5, 1967]. [1967.] [2]+2 p.  
\* Paper, 5c.  
L.C. card 67-62236
- 15772 6258. Agricultural commodities, agreement between United States and Pakistan,  
signed Islamabad May 11, 1967; [entered into force May 11, 1967].  
[1967.] [2]+13 p. \* Paper, 10c.  
L.C. card 67-62237
- 15773 6259. Alien amateur radio operators, agreement between United States and  
Honduras, effected by exchange of notes signed Tegucigalpa Dec. 29,  
1966, and Jan. 24 and Apr. 17, 1967; [entered into force Apr. 17, 1967.]  
[1967.] [2]+6 p. [Spanish and English.] \* Paper, 5c.  
L.C. card 67-62329
- 15774 6261. Alien amateur radio operators, agreement between United States and  
Trinidad and Tobago, effected by exchange of notes signed St. Ann's and  
Port of Spain Jan. 14, and Mar. 16, 1967; [entered into force Mar. 16,  
1967]. [1967.] [2]+3 p. \* Paper, 5c.  
L.C. card 67-62330
- 15775 6262. Income tax administration, agreement between United States and Viet-  
Nam, effected by exchange of notes signed Saigon Mar. 31 and May 3,  
1967; [entered into force May 3, 1967]. [1967.] [2]+6 p. \* Paper, 5c.  
L.C. card 67-62238
- 15776 6264. Alien amateur radio operators, agreement between United States and  
Switzerland, effected by exchange of notes signed Bern Jan. 12 and  
May 16, 1967; [entered into force May 16, 1967]. [1967.] [2]+4 p.  
[English and French.] \* Paper, 5c.  
L.C. card 67-62331
- 15777 6265. Trade in cotton textiles, agreement between United States and Mexico,  
effected by exchange of notes signed Washington June 2, 1967; [entered  
into force June 2, 1967, effective May 1, 1967]. [1967.] [2]+12 p.  
[English and Spanish.] \* Paper, 10c.  
L.C. card 67-62239

❖For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 69

# GOVERNMENT PUBLICATIONS

## Treaties and other international acts series—Continued

- 15778 6266. Mutual defense assistance, cash contribution by Japan, arrangement between United States and Japan relating to agreement of Mar. 8, 1954, effected by exchange of notes signed Tokyo June 2, 1967; [entered into force June 2, 1967]. [1967.] [2]+5 p. [Japanese and English.] \* Paper, 5c.  
L.C. card 67-62240
- 15779 6267. Telecommunication convention, with annexes, and final protocol between United States and other governments, signed Montreux Nov. 12, 1965, signed on behalf of United States, subject to certain declarations, Nov. 12 1967 [proclaimed by President of United States June 20, 1967; entered into force with respect to United States May 29, 1967] and additional protocols 1-4. [1967.] [2]+626 p. [English, French, Spanish, and Chinese.] \* Paper, \$2.00.
- 15780 6268. Telecommunication, pre-sunrise operation of certain standard (AM) radio broadcasting stations, agreement between United States and Canada, effected by exchange of notes signed Ottawa Mar. 31 and June 12, 1967; [entered into force June 12, 1967]. [1967.] [2]+4 p. 1 p. [English and French.] \* Paper, 15c.  
L.C. card 67-62241
- 15781 6269. Air transport services for United States Government aircraft, agreement between United States and Agency for the Safety of Air Navigation in Africa and Madagascar (ASECNA), signed Paris June 22, 1967; [entered into force June 22, 1967], with exchange of letters. [1967.] [2]+7 p. [English and French.] \* Paper, 10c.  
L.C. card 67-62333
- 15782 6270. Air transport services, agreement between United States and Panama, amending agreement of Mar. 31, 1949, as amended, effected by exchange of notes signed Panama June 5, 1967; [entered into force June 5, 1967]. [1967.] [2]+7 p. [Spanish and English.] \* Paper, 10c.  
L.C. card 67-62242
- 15783 6271. Agricultural commodities, agreement between United States and Viet-Nam, signed Saigon Mar. 13, 1967; [entered into force Mar. 13, 1967]. [1967.] [2]+9 p. \* Paper, 10c.  
L.C. card 67-62243
- 15784 6273. Alien amateur radio operators, agreement between United States and Norway, effected by exchange of notes signed Oslo May 27 and June 1, 1967; [entered into force June 1, 1967]. [1967.] [2]+3 p. \* Paper, 5c.  
L.C. card 67-62244
- 15785 6275. Trade in cotton textiles, agreement between United States and Malta, effected by exchange of notes dated Valletta June 14, 1967; [entered into force June 14, 1967, effective Jan. 1, 1967]. [1967.] [2]+10 p. \* Paper, 10c.  
L.C. card 67-62424
- 15786 6276. Trade in cotton textiles, agreement between United States and Turkey, amending agreement of July 17, 1964, effected by exchange of notes signed Washington June 30, 1967; [entered into force June 30, 1967]. [1967.] [2]+2 p. \* Paper, 5c.  
L.C. card 67-62334
- 15787 6277. Peace Corps, agreement between United States and Guyana, effected by exchange of notes signed Georgetown May 31 and June 7, 1967; [entered into force June 7, 1967]. [1967.] [2]+3 p. \* Paper, 5c.  
L.C. card 67-62342
- 15788 6278. Loan of vessel, agreement between United States and Brazil, effected by exchange of notes signed Washington June 15 and 28, 1967; [entered into force June 28, 1967]. [1967.] [2]+4 p. [English and Portuguese.] \* Paper, 5c.  
L.C. card 67-62335
- 15789 6279. Diplomatic courier visas, agreement between United States and Romania, amending agreement of Apr. 20 and May 14 and 26, 1962, effected by exchange of notes dated Bucharest May 31 and June 17, 1967; [entered into force June 19, 1967]. [1967.] [2]+2 p. [English and Rumanian.] \* Paper, 5c.  
L.C. card 67-62245
- 15790 6282. Loan of vessel, agreement between United States and Republic of China, effected by exchange of notes signed Taipei Mar. 14 and Apr. 1, 1967; [entered into force Apr. 1, 1967]. [1967.] [2]+6 p. [English and Chinese.] \* Paper, 5c.  
L.C. card 67-62336
- 15791 6283. Extension of loan of vessels, grant of vessel, agreement between United States and Republic of China, effected by exchanges of notes signed Taipei Jan. 16 and Mar. 6, 1967; [entered into force Mar. 6, 1967]. [1967.] [2]+8 p. [English and Chinese.] \* Paper, 10c.  
L.C. card 67-62426
- 15792 6284. Safety of life at sea, proces-verbal of rectification to certain annexes to convention of June 17, 1960, between United States and other governments, done London Feb. 15, 1966. [1967.] [2]+10 p. [English and French.] \* Paper, 10c.  
L.C. card 67-62337
- 15793 6286. Agricultural commodities, agreement between United States and Pakistan, amending agreement of May 26, 1966, as amended, effected by exchange of notes signed Rawalpindi and Islamabad June 28, 1967; [entered into force June 28, 1967]. [1967.] [2]+2 p. \* Paper, 5c.  
L.C. card 67-62338

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15794 6287. Fisheries, certain fisheries off United States coast [and] salmon fisheries, agreements between United States and Japan, effected by exchanges of notes signed Tokyo May 9, 1967; [entered into force May 9, 1967], with Japanese note and agreed minutes. [1967.] [2]+24 p. [Japanese and English.] \* Paper, 15c.  
L.C. card 67-62425
- 15795 6288. Maritime matters, visit of N.S. Savannah to Hong Kong, agreement between United States and United Kingdom of Great Britain and Northern Ireland, modifying agreement of June 19, 1964, effected by exchange of notes signed London June 12, 1967; [entered into force June 12, 1967]. [1967.] [2]+4 p. \* Paper, 5c.  
L.C. card 67-62339
- 15796 6289. International trade in cotton textiles, protocol between United States and other governments, extending long-term arrangements of Feb. 9, 1962, done Geneva May 1, 1967; [entered into force Oct. 1, 1967]. [1967.] [2]+4 p. [English and French.] \* Paper, 5c.  
L.C. card 67-62340
- 15797 6291. Trade in cotton textiles, agreement between United States and Pakistan, effected by exchange of notes signed Washington July 3, 1967; [entered into force July 3, 1967, effective July 1, 1966]. [1967.] [2]+15 p. \* Paper, 10c.  
L.C. card 67-62427
- 15798 6292. Loan of vessel, agreement between United States and Brazil, effected by exchange of notes signed Washington June 23 and 28, 1967; [entered into force June 28, 1967]. [1967.] [2]+5 p. [English and Portuguese.] \* Paper, 5c.  
L.C. card 67-62341
- 15799 6303. Maritime matters, liability during private operation of N.S. Savannah, agreement between United States and Republic of China, effected by exchange of notes, dated Taipei Mar. 24, and June 8, 1967; [entered into force June 8, 1967]. [1967.] [2]+6 p. [English and Chinese.] \* Paper, 5c.  
L.C. card 67-62428
- 15800 6310. Maritime matters, deployment of USS Yellowstone to Malta, agreement between United States and Malta, effected by exchange of notes, signed Valletta July 6 and 25, 1967; [entered into force July 25, 1967]. [1967.] [2]+5 p. \* Paper, 5c.  
L.C. card 67-62429
- 15801 6312. Atomic energy, cooperation for civil uses, agreement between United States and South Africa, amending agreement of July 8, 1957, as amended, signed Washington July 17, 1967; [entered into force Aug. 17, 1967]. [1967.] [2]+7 p. \* Paper, 10c.  
L.C. card 67-62430
- 15802 6317. Trade, staging of tariff concessions, agreement between United States and Japan, amending interim agreement of Sept. 6, 1966, effected by exchange of notes, signed Geneva June 30, 1967; [entered into force June 30, 1967]. [1967.] [2]+2 p. \* Paper, 5c.  
L.C. card 67-62431
- 15803 6318. Trade, staging of tariff concessions, agreement between United States and United Kingdom of Great Britain and Northern Ireland, amending interim agreement of Apr. 5, 1966, effected by exchange of notes signed Geneva June 30, 1967; [entered into force June 30, 1967]. [1967.] [2]+2 p. \* Paper, 5c.  
L.C. card 67-62432
- 15804 6319. Agricultural commodities, agreement between United States and Viet-Nam, amending agreement of Mar. 13, 1967, effected by exchange of notes signed Saigon July 26, 1967; [entered into force July 26, 1967]. [1967.] [2]+2 p. \* Paper, 5c.  
L.C. card 67-62433
- 15805 Viet-Nam, selected bibliography. [July 1967.] 16 p. 4° (Foreign Service Institute, Center for Area and Country Studies.) † S 1.114/3: V 67

**STATISTICAL REPORTING SERVICE, Agriculture Dept.**  
Washington, D.C. 20250

- 15806 Milk production. Aug. 11, 1967. 7 p. 1l. 4° (Da 1-1 (8-67); Crop Reporting Board.) [Special in this issue June milk cow numbers.] †  
A 92.10: 967/8

**TARIFF COMMISSION**  
Washington, D.C. 20436

- 15807 Synthetic organic chemicals, United States production and sales of rubber processing chemicals, 1966, preliminary. Aug. 1967. cover title, 9 p. 4° †  
TC 1.33/2: R 82
- 15808 Wilton, Brussels, velvet, and tapestry carpets and rugs, report to the President on investigation no. TEA-I-EX-2 under sec. 351-(d) (3) of Trade

## GOVERNMENT PUBLICATIONS

expansion act of 1962. Sept. 1967. cover title, [2]+36 leaves, 4° (TC publication 213; [TC28827].) †  
L.C. card 62-60302 TC 1.2: C 22/2

### TRANSPORTATION AND COMMUNICATIONS SERVICE, General Services Administration, Washington, D.C. 20405

- 15809 Guide for Government motor vehicle fleet management. July 1967. cover title, v+62 p. il. 4° (FPMR 101-38; Motor Equipment Management Division.) † ● Item 580-A GS 8.6/2: M 85/2

### TREASURY DEPARTMENT Washington, D.C. 20220

- 15810 Democracy, a continuous living process, remarks by True Davis, Assistant Secretary of Treasury and United States Executive Director of Inter-American Development Bank before Veterans of Foreign Wars of United States on accepting 1967 Americanism award of V.F.W., New Orleans, La., Aug. 23, 1967. 1967. 5 p. 4° (F-1005.) † T 1.31: D 29/8

Department circular.

- 15811 570. Companies holding certificates of authority as acceptable sureties on Federal bonds and as acceptable reinsuring companies. 1967 revision. June 1, 1967. 7 p. 4° (Fiscal Service, Bureau of Accounts.) † ● Item 924 T 1.4/2: 570/21

Department circular, public debt series.

- 15812 7-67. United States of America 5¼ percent treasury notes of series D-1968, dated and bearing interest from Aug. 15, 1967, due Nov. 15, 1968. July 27, 1967. 3 p. 4° † ● Item 924 T 1.4/3: 7-67

### UNITED STATES TRAVEL SERVICE, Commerce Dept. Washington, D.C. 20230

- 15813 Orientações E.U.A., entrada, compras, viagens, gorjetas, acomodações, alimentação, diversões, museus. [1967.] 40 p. il. 4°, folded into narrow 8° size. ([U.S.T.S.-102-P.]) † C 47.2: D 62/Portuguese
- 15814 Wegweiser für Amerika-reisende, ankunft, einkauf, unterwegs, trinkgelder, übernachtung, essen, unterhaltung, museen. [1967.] 40 p. il. 4°, folded into narrow 8° size. ([U.S.T.S.-102-G.]) † C 47.2: D 62/German

### VETERANS ADMINISTRATION Washington, D.C. 20420

VA pamphlets. ● Item 988 VA 1.19:(nos.)

- 15815 05-27. These are yours! salary, life insurance, opportunity for promotion, cash for ideas, retirement benefits, financial protection against sickness, accident, unemployment, vacations and holidays with pay. Revised July 1966. [1967.] 22 p. il. (Office of Assistant, Administrator for Personnel.) ● Paper, 15c.
- 15816 10-63. Corrective therapists in Veterans Administration hospitals and clinics, nationwide. Revised May 1967. [1967.] [4] p. il. 4° ([Department of Medicine and Surgery.]) †
- 15817 10-95. Medico-moral ethics for hospital ministry [papers, with bibliographies]. 1967. cover title, il+41 p. (VA Chaplain Workshops 1967.) ● Paper, 20c.  
L.C. card 67-62468

- 15818 Veterans Administration Center, Dayton, Ohio, residency training in internal medicine. [1967.] cover title, 12 p. il. 4° † ● Item 985 VA 1.2: R 31/3

### WAGE AND HOUR AND PUBLIC CONTRACTS DIVISIONS, Labor Dept., Washington, D.C. 20210

Regulations, title 29, of Code of Federal regulations.

- 15819 530. Employment of homeworkers in certain industries as used in sec. 11(d) of Fair labor standards act of 1938, as amended. [Reprint 1967.] il+4 p. 4° (WHPC publication 1026.) [Text of code up to and including July 20, 1967.] † ● Item 780 L 22.9: 530/2

•For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

OCTOBER 1967

WOMEN'S BUREAU, Labor Dept.  
Washington, D.C. 20210

- 15820 Preliminary report of consultation on working women and day care needs, held June 1, 1967, Washington, D.C., convened by Women's Bureau, Department of Labor, Children's Bureau, Welfare Administration, Department of Health, Education, and Welfare, [and] Directions Seminar. [Aug. 1967.] cover title, [3]+28 p. 4° ([WB-68-18.]) †  
L 13.2: W 84/46/prelim.

YARDS AND DOCKS BUREAU (Navy), Defense Dept.

NOTE.—The Bureau of Yards and Docks was abolished and its functions transferred to the Naval Facilities Engineering Command effective May 1, 1966.



# MONTHLY CATALOG



OF UNITED STATES  
GOVERNMENT PUBLICATIONS

---

NOVEMBER 1967

Number 874

---

Entries 15821-17298

Issued by the SUPERINTENDENT OF DOCUMENTS

---

U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402 : 1967

L.C. Card 4-18088

FOR SALE BY THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT  
PRINTING OFFICE, WASHINGTON, DC 20402. PRICE 50 CENTS PER COPY  
EXCEPT DECEMBER (INDEX) ISSUE, WHICH VARIES IN PRICE  
SUBSCRIPTION PRICE \$6.00 PER YEAR (INCLUDING INDEX)  
\$1.50 ADDITIONAL FOR FOREIGN MAILING



# New Classification Numbers

A 13.62/11-3: date_____	Forest Service. Pacific Southwest Forest and Range Experiment Station: List of available publications, Packers and Stockyards Administration.
A 96.10: nos_____	P&SA (series).
C 3.134/a: CT_____	Census Bureau. Statistical abstract of United States (separates).
C 3.240/2: nos_____	Data access descriptions: Automated address coding guide and data retrieval series AAC.
C 46.26: date_____	Economic Development Administration. Research review.
C 52.21: nos_____	Environmental Science Services Administration. WB/BC (series).
D 206.10/2: Reserved	Medicine and Surgery Bureau (Navy).
D 206.10/3: nos_____	U.S. Naval Submarine Medical Center: Special reports.
D 301.73: v.nos.& nos_____	Air Force Department. Air Force Comptroller (quarterly).
FS 2.3/2: Reserved	Public Health Service.
FS 2.3/3: nos_____	Technical information bulletins.
FS 2.22/50-3: date_____	National Clearinghouse for Mental Health Information: Occupational mental health notes.
FS 2.309: date_____	Health consequences of smoking, Public Health Service review.
FS 2.310: nos_____	Workshop series of Pharmacology Section, N.I.M.H.
FS 3.28/4: nos_____	Social Security Administration. Health insurance statistics, CMS (series).
FS 5.82: date_____	Education Office. Report on cooperative research to improve the Nation's schools (annual).
FS 17.103:--108: Reserved	Rehabilitation Services Administration.
FS 17.109: v.nos.& nos_____	Rehabilitation record. NOTE.—See, for earlier class, FS 13.216:(v. nos. & nos.).
FS 17.210: nos_____	Children's Bureau. Publications (numbered). NOTE.—See, for earlier class, FS 14.111:(nos.).
GA 1.16: CT_____	General Accounting Office. Bibliographies and lists of publications.
I 28.114: CT_____	Mines Bureau. Laws.
L 1.56: Reserved	Labor Department.
L 1.57: nos_____	Department of Labor program reports.
L 2.71/3: nos_____	Labor Statistics Bureau. NE regional reports.

## Labor Standards Bureau.

L 16.51/8: Reserved

L 16.51/9: nos.----- Off the job safety, Department of Labor safety programs OJS LS (series).  
Work Programs Bureau.

L 32.3: -8: Reserved

L 32.9: CT----- Addresses.

NAS 1.36: date-----

National Aeronautics and Space Administration.  
NASA BITS [brief ideas, thoughts, suggestions] (semiannual).

PrEx 1.10/7: date-----

President of United States.  
President's Committee on Employment of the Handicapped: Program guide.  
NOTE.—See, for earlier class, L 16.44/2: P 94/ (date).

PrEx 10.21: date-----

Economic Opportunity Office.

VISTA fact book.

T 22.25/3: trans. nos.-----

Internal Revenue Service.  
Internal revenue bulletin index-digest quarterly system: Service 1, Tax matters other than alcohol, tobacco, and firearms.

TD 1.112: CT-----

National Transportation Safety Board.

Aircraft accident reports.

NOTE.—See, for earlier class, C 31.213: (CT).

TD 2.301: date-----

Motor Carrier Safety Bureau.

Annual report.

NOTE.—See, for earlier class, IC 1 mot. 1: (date).

TD 2.302: CT-----

General publications.

NOTE.—See, for earlier class, IC 1 mot. 2: (CT).

TD 2.303: -308: Reserved

TD 2.309: nos.-----

Motor carrier accident investigation reports.

NOTE.—See, for earlier class, IC 1 mot. 18: (nos.)

TD 2.310: date-----

Accidents of large motor carriers of property.

NOTE.—See, for earlier class IC 1 mot. 2: Ac 2/6/ (date).

TD 4.10/2: date-----

Federal Aviation Administration.

Summary of airworthiness directives for small aircraft.

NOTE.—See, for earlier class, FAA 1.28/2: (date).

TD 4.14: date-----

Airport activity statistics of certificated route air carriers (semiannual).

NOTE.—See, for earlier class, C 31.251: (date).

TD 4.18: date-----

Census of U.S. civil aircraft (annual).

NOTE.—See, for earlier class, FAA 1.35/2: (date).

TD 4.19: date-----

FAA air traffic activity.

NOTE.—See, for earlier class, FAA 1.27: (date).

TD 5.15: date-----

Coast Guard.

Cadet profiles.

NOTE.—See, for earlier class, T 47.2: C 11/ (date).

TD 6.1: date-----

St. Lawrence Seaway Development Corporation.

Annual report.

NOTE.—See, for earlier class, Y 3.Sa 2: 1/ (date).

TD 6.2: CT-----

General publications.

NOTE.—See, for earlier class, Y 3.Sa 2: 2 (CT).

VA 1.48: nos.-----

Veterans Administration.

VA monographs.

VA 1.48/2: nos.-----

Research monographs.

Y 3.C 63/2: 1/date-----

Coastal Plains Regional Commission.

Annual report.

Y 3.C 63/2: 2 CT-----

General publications.

Y 3.C 63/2: 3-8 Reserved

Y 3.C 63/2: 9 CT-----

Addresses.

Y 3.T 25: 35/date-----

Tennessee Valley Authority.

Engineering Laboratory research (annual).

Y 3.Up 6: 1/date-----

Upper Great Lakes Regional Commission.

Annual report.

Y 3.Up 6: 2 CT-----

General publications.

## Corrections for Previous Monthly Catalogs

- Sept. 1966. Entry 12721, Current industrial reports: Plumbing fixtures, summary for 1965. Correct class to read C 3.158 : M 34E (65)-5.
- Mar. 1967. Entry 4668, 330-175-1, Defense communications system engineering-installation standards manual, change 5. Correct class to read D 5.104 : 330-175-1/ch.5.
- May 1967. Entry 7925, 18. Correlation of littoral transport with wave energy along shores of New York and New Jersey. The series should be corrected to read Technical memorandum.
- July 1967. Entry 10954, 18. [Correlation of littoral transport with wave energy along shores of New York and New Jersey], Nov. 1966, errata. The series should be corrected to read Technical memorandum.
- Sept. 1967. Entry 14550, Lincoln Memorial. Change class to read I 29.21 : L 63/967.



# Classified List of Government Authors

	Beginning Entry
Administrative Office of United States Courts.....	15821
Advisory Commission on Intergovernmental Relations.....	15822
Agricultural Department.....	15834
Agricultural Research Service.....	15824
Agricultural Stabilization and Conservation Service.....	15833
Commodity Exchange Authority.....	16112
Consumer and Marketing Service.....	16441
Economic Research Service.....	16485
Farmer Cooperative Service.....	16545
Federal Extension Service.....	16568
Foreign Agricultural Service.....	16641
Forest Service.....	16644
National Agricultural Library.....	17025
Packers and Stockyard Administration.....	17103
Rural Electrification Administration.....	17187
Soil Conservation Service.....	17205
Statistical Reporting Service.....	17250
Arms Control and Disarmament Agency.....	15924
Atomic Energy Commission.....	15957
Civil Aeronautics Board.....	16045
Civil Rights Commission.....	16061
Civil Service Commission.....	16062
Coastal Plains Regional Commission.....	16090
Commerce Department.....	16091
Business and Defense Services Administration.....	15983
Census Bureau.....	15987
Economic Development Administration.....	16477
Environmental Science Services Administration.....	16530
Coast and Geodetic Survey.....	16084
Weather Bureau.....	17293
Maritime Administration.....	16843
National Bureau of Standards.....	17031
Patent Office.....	17104
United States Travel Service.....	17275
Congress.....	16113
Economic Joint Committee.....	16146
House of Representatives.....	16150
Agriculture Committee.....	16301
Appropriations Committee.....	16304
Armed Services Committee.....	16306
Banking and Currency Committee.....	16314
District of Columbia Committee.....	16318
Education and Labor Committee.....	16321
Foreign Affairs Committee.....	16326
Government Operations Committee.....	16327

## Congress—Continued

	Beginning Entry
House of Representatives—Continued	
Judiciary Committee.....	16332
Merchant Marine and Fisheries Committee.....	16335
Post Office and Civil Service Committee.....	16338
Public Works Committee.....	16340
Science and Astronautics Committee.....	16342
Veterans' Affairs Committee.....	16344
Ways and Means Committee.....	16346
Senate .....	16347
Agriculture and Forestry Committee.....	16387
Appropriations Committee.....	16388
Armed Services Committee.....	16394
Banking and Currency Committee.....	16396
Commerce Committee.....	16398
District of Columbia Committee.....	16405
Finance Committee.....	16408
Foreign Relations Committee.....	16410
Government Operations Committee.....	16411
Interior and Insular Affairs Committee.....	16417
Judiciary Committee.....	16419
Labor and Public Welfare Committee.....	16426
Post Office and Civil Service Committee.....	16429
Public Works Committee.....	16433
Small Business, Select Committee on.....	16436
Court of Claims.....	16453
Customs Court.....	16454
Defense Department.....	16456
Air Force Department.....	15878
Armed Forces Information and Education.....	15905
Army Department.....	15927
Army Medical Service.....	15956
Civil Defense Office.....	16050
Engineers Corps.....	16518
Lake Survey.....	16833
Joint Chiefs of Staff.....	16730
Defense Communications Agency.....	16455
Navy Department.....	17098
Marine Corps.....	16839
Medicine and Surgery Bureau.....	16845
Naval Air Systems Command.....	17062
Naval Facilities Engineering Command.....	17063
Naval Operations Office.....	
Naval Oceanographic Office.....	17069
Naval Personnel Bureau.....	17078
Naval Academy.....	17061
Naval Research Office.....	17082
Farm Credit Administration.....	16544
Federal Communications Commission.....	16564
Federal Deposit Insurance Corporation.....	16567
Federal Home Loan Bank Board.....	16571
Federal Maritime Commission.....	16576
Federal Power Commission.....	16580
Federal Reserve System Board of Governors.....	16588

	Beginning Entry
General Accounting Office.....	16667
General Services Administration.....	16679
Federal Supply Service.....	16600
National Archives and Records Service.....	17027
Federal Register Office.....	16586
Government Printing Office.....	
Public Documents Division.....	17130
Health, Education, and Welfare Department.....	16706
Education Office.....	16497
Food and Drug Administration.....	16639
Public Health Service.....	17137
National Library of Medicine.....	17045
Social and Rehabilitation Service.....	17196
Children's Bureau.....	16042
Family Services Bureau.....	16540
Rehabilitation Services Administration.....	17182
Social Security Administration.....	17197
Housing and Urban Development Department.....	16707
Federal Housing Administration.....	16575
Interior Department.....	16717
Bonneville Power Administration.....	15982
Federal Water Pollution Control Administration.....	16609
Fish and Wildlife Service.....	16610
Geological Survey.....	16680
Minerals Exploration Office.....	16847
Mines Bureau.....	16848
National Park Service.....	17052
Oil and Gas Office.....	17101
Outdoor Recreation Bureau.....	17102
Reclamation Bureau.....	17178
Interstate Commerce Commission.....	16726
Joint Publications Research Service.....	16732-1
Justice Department.....	16788
Prisons Bureau.....	17128
Labor Department.....	16791
Employees' Compensation Bureau.....	16514
Labor Standards Bureau.....	16797
Labor Statistics Bureau.....	16812
Manpower Administration.....	
Employment Security Bureau.....	16515
Work Programs Bureau.....	17297
Veterans Reemployment Rights Office.....	17288
Wage and Hour and Public Contracts Divisions.....	17289
Women's Bureau.....	17295
Library of Congress.....	16837
Copyright Office.....	16451
Missouri Basin Inter-Agency Committee.....	16868
National Academy of Sciences.....	16876
National Aeronautics and Space Administration.....	16877
National Labor Relations Board.....	17043
National Railroad Adjustment Board.....	17055
National Science Foundation.....	17057
Post Office Department.....	17109

	Beginning Entry
President of United States.....	17121
Executive Office of the President	
Economic Opportunity Office.....	16481
Selective Service System.....	17192
Small Business Administration.....	17194
Smithsonian Institution	
National Museum.....	17046
State Department.....	17210
International Development Agency.....	16725
Tariff Commission.....	17252
Tax Court.....	17259
Tennessee Valley Authority.....	17260
Transportation Department.....	17264
Coast Guard.....	16088
Federal Aviation Administration.....	16547
Air Traffic Service.....	15903
Airports Service.....	15904
Aviation Medicine Office.....	15979
Flight Standards Service.....	16638
Federal Highway Administration	
Motor Carrier Safety Bureau.....	16871
Public Roads Bureau.....	17175
National Transportation Safety Board.....	17059
St. Lawrence Seaway Development Corporation.....	17191
Treasury Department.....	17265
Internal Revenue Service.....	16719
United States Information Agency.....	17274
Upper Great Lakes Regional Commission.....	17281
Veterans Administration.....	17282
Water Resources Council.....	17292



# Monthly Catalog

NO. 874 • NOVEMBER 1967

## ADMINISTRATIVE OFFICE OF UNITED STATES COURTS Washington, D.C. 20543

- 15821 Persons under supervision of Federal probation system, fiscal year 1968; [prepared by James A. McCafferty]. [1967.] [1]+xvi+129 p. 7 pl. 4° †  
L.C. card 64-62120 Ju 10.2: P 94/966

## ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS Washington, D.C. 20575

- 15822 1968 State legislative program on Advisory Commission on Intergovernmental Relations. Sept. 1967. viii+629 p. (M-35.) [Edge index and how to use on p. 4 of cover.] † • Item 1049-D Y 3.Ad 9/8: 2L 52/968  
L.C. card 65-60443  
15823 State-local taxation and industrial location. Apr. 1967. x+114 p. 4° (Commission report A-30.) \* Paper, 60c. • Item 1049-D  
L.C. card 67-62570 Y 3.Ad 9/8: 2T 19/13

## AGRICULTURAL RESEARCH SERVICE, Agriculture Dept. Washington, D.C. 20250

ARS (series). † A 77.15: (nos.)

- 15824 42-133. Gin trash collection efficiency of small-diameter cyclones; [by] Roy V. Baker and V. L. Stedronsky. July 1967. 16 p. il. 4°  
L.C. card Ar. 67-304
- 15825 51-13. Temperatures, relative humidity, and atmosphere composition in mechanically refrigerated car and trailer loaded with lettuce; [by] Joseph K. Stewart and John M. Harvey]. July 1967. [2]+8 p. il. 4° ([Market Quality Research Division.])
- 15826 62-16. Food consumption of households in United States, spring 1965, preliminary report; [by] Consumer and Food Economics Research Division]. Aug. 1967. 28 p. 4° • Item 25-B
- 15827 91-64. Facts about screwworm barrier program. Sept 1967. 15 p. il. 4° ([Animal Health Division.]) [Supersedes ARS 91-39, Facts about screwworm eradication, Jan. 1963.] • Item 25-B  
L.C. card Agr 67-333
- 15828 Plant inventory no. 169, Plant material introduced Jan. 1-Dec. 31, 1961 (nos. 279535-277783) [received by New Crops Research Branch, Crops Research Division; by] Howard L. Hyland. July 1967. 316 p. † • Item 101  
A 77.515: 169
- 15829 Plant quarantine import requirements of Canada. Aug. 9, 1967. 14 p. (Plant quarantine Division.) [Issued with perforations. Supersedes summary Aug. 19, 1960, and TM Mar. 17, 1965. Errata, dated Sept. 13, 1967. 1 p. 4°, issued also.] †  
A 77.329: C 16
- 15830 1967 proceedings of National Brucellosis Committee and progress report of cooperative State-Federal brucellosis eradication program. [Sept. 1967.] cover title, ii+58 p. il. 4° [Text on p. 2 of cover.] † • Item 30  
A 77.202: B 83/16/967
- 15831 Publications and patents, Eastern Utilization Research and Development Division, publication nos. 2538-2639, Jan.-June 1967. [July 1967.] 35 p. 4° †  
A 77.17/4: 967

•For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

•Sent to Depository Libraries

Page 1

# GOVERNMENT PUBLICATIONS

- 15832 Veterinary Biologics Division notice 5; Biological products produced [and destroyed] in licensed establishments, fiscal year 1967. July 31, 1967. 8 p. 4° (Veterinary Biologics Division.) † A 77.226/3:5

## AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE, Agriculture Dept., Washington, D.C. 20250

- 15833 ASCS aerial photography status maps, as of June 30, 1967. [1967.] cover title, [128] p. il. 4° (Aerial Photography Division.) [Issued with perforations.] † A 82.2: Ae 8/967

## AGRICULTURE DEPARTMENT Washington, D.C. 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

- 15834 Address by Secretary of Agriculture Orville L. Freeman at convention of National League of Cities, Boston, Mass., Aug. 1, 1967. [1967.] 16 p. 4° (2267; USDA 2425-67.) † A 1.40: F 87/294
- 15835 Address by Secretary of Agriculture, Orville L. Freeman before American Institute of Biological Sciences, College Station, Tex., Aug. 30, 1967. 16 p. 4° (2616; USDA 2749-67.) † A 1.40: F 87/298

### Agriculture handbooks. ● Item 3 A 1.76:(nos.)

- 15836 323. Vegetable gardening in Caribbean area [with bibliographies]; by Harold F. Winters and George W. Miskimen. Aug. 1967. iv+114 p. il. 4° (Agricultural Research Service.) [Supersedes Circular 32, Vegetable gardening in tropics.] \* Paper, 65c. L.C. card Agr 67-355
- 15837 329. Insects affecting sweetpotatoes [with list of literature cited; by F. P. Cuthbert, jr.]. [July 1967.] [3]+28 p. il. 4° (Agricultural Research Service.) [Prepared in cooperation with Clemson University Agricultural Experiment Station.] \* Paper, 25c.

### Agricultural information bulletins. ● Item 4 A 1.75:(nos.)

- 15838 196. Why and how of rural zoning; [by Erling D. Solberg]. [Revised Aug. 1967.] [1967.] cover title, ii+58 p. il. 4° (Economic Research Service.) [Text on p. 2 of cover.] \* Paper, 40c.
- 15839 321. Our American land, use the land, save the soil. [1967.] 30+(1) p. il. 4° (Soil Conservation Service.) \* Paper, 20c. L.C. card Agr 67-360
- 15840 322. Science and consumers; [prepared by Information Division, Agricultural Research Service]. [Sept. 1967.] [20] p. il. 4° \* Paper, 25c.
- 15841 323. Science and America's beauty; [prepared by Information Division, Agricultural Research Service]. [Sept. 1967.] [2]+12+[2] p. il. 4° †
- 15842 324. Science and saving water and soil; [prepared by Agricultural Research Service]. [Aug. 1967.] [16] p. il. 4° \* Paper, 20c.
- 15843 328. Agricultural application of remote sensing, potential from space platforms [with bibliography; by H. Thomas Frey]. [Sept. 1967.] vi+28 p. il. 4° (Economic Research Service.) \* Paper, 25c. L.C. card Agr 67-354
- 15844 Anticipating year 2000, address by Assistant Secretary of Agriculture George L. Mehren before American Dietetic Association, Chicago, Ill., Aug. 15, 1967. [1967.] 20 p. 4° (USDA 2590-67.) † A 1.40: M 47/33
- 15845 Background on farm and food prices. Aug. 1967. 8 p. 4° † A 1.2: F 22/15
- 15846 Challenge of land use, address by Secretary of Agriculture, Orville L. Freeman before 22d annual meeting of Soil Conservation Society of America, Des Moines, Iowa, Aug. 14, 1967. [1967.] 15 p. 4° (2362; USDA 2553-67.) † A 1.40: F 87/296

### Farmers' bulletins. ● Item 9 A 1.9:(nos.)

- 15847 2099. Control of caterpillars on commercial cabbage and other cole crops in South, cabbage, broccoli, cauliflower, collards, kale; [by W. J. Reid, jr. and F. P. Cuthbert, jr.]. [Revised Sept. 1967.] [1967.] 24 p. il. ([Entomology Research Division, Agricultural Research Service.]) \* Paper, 15c. L.C. card Agr 67-313

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# NOVEMBER 1967

- 15848 2193. Grasshopper control; [prepared by Entomology Research Division and Plant Pest Control Division, Agricultural Research Service]. [Revised Sept. 1967.] [1967.] 12 p. il. \* Paper, 10c.
- 15849 2227. Fire resistant construction of home, of farm buildings; [by Merrill S. Timmins, jr.]. [Sept. 1967.] [2]+18 p. il. ([Agricultural Engineering Research Division, Agricultural Research Service.]) [Supersedes Farmers' bulletin 2070, Fire-resistant construction on farm.] \* Paper, 15c.  
L.C. card Agr 67-339

## Home and garden bulletins. • Item 11

A 1.77:(nos.)

- 15850 8. Home canning of fruits and vegetables; [prepared by Human Nutrition Research Division, Agricultural Research Service]. [Revised Feb. 1965, slightly revised Oct. 1967.] [1967.] 32 p. il. [Includes more information, when you preserve food at home, list of other publications of Agricultural Research Service.] \* Paper, 15c.
- 15851 55. Potatoes in popular ways. [Oct. 1957, slightly revised Sept. 1967.] [1967.] [2]+22 p. il. ([Human Nutrition Research Division, Agricultural Research Service.]) [Supersedes leaflet 295.] \* Paper, 15c.
- 15852 85. Food for young couple; [prepared by Consumer and Food Economics Research Division, Agricultural Research Service]. [Nov. 1962, slightly revised Sept. 1967.] [1967.] 16 p. il. [Supersedes leaflet 306, Food for 2.] \* Paper, 10c.
- 15853 91. Growing flowering annuals; [by Henry M. Cathey]. [Slightly revised Sept. 1967.] [1967.] 16 p. il. ([Crops Research Division, Agricultural Research Service.]) [Supersedes Farmers' bulletin 1171, Growing annual flowering plants.] \* Paper, 10c.
- 15854 123. Lawn weed control with herbicides. [Oct. 1967.] 24 p. il. ([Crops Research Division, Agricultural Research Service.]) [Supersedes Home and garden bulletin 79, Controlling lawn weeds with herbicides.] \* Paper, 15c.  
L.C. card Agr 67-367
- 15855 140. How to buy instant nonfat dry milk. [Sept. 1967.] [8] p. il. narrow 8° ([Consumer and Marketing Service.]) \* Paper, 5c.

## Home economics research report.

- 15856 32. Pattern alteration, guide for leaders in clothing programs; [prepared by] Agricultural Research Service. [Nov. 1965, slightly revised Aug. 1967.] [1967.] ii+38 p. il. 4° [Contains information similar to that formerly published in Farmers' bulletin 1968, Pattern alteration.] \* Paper, 30c.  
• Item 11-B A 1.37:32/2

## Leaflet.

- 15857 397. Brooding chicks with infrared lamps; [prepared by John G. Taylor and J. M. Stanley]. [Dec. 1955, slightly revised Oct. 1967.] [1967.] 4 p. il. ([Agricultural Engineering Research Division, Agricultural Research Service.]) \* Paper, 5c. • Item 12 A 1.35:397/4

## Marketing bulletin.

- 15858 37. Story of cotton; [by W. H. Fortenberry]. [Sept. 1967.] [24] p. il. oblong 24° (Consumer and Marketing Service.) [Supersedes Leaflet 167, Facts about cotton.] \* Paper, 25c. • Item 13-G A 1.95:37  
L.C. card Agr 67-353

## Marketing research reports. • Item 13-B

A 1.82:(nos.)

- 15859 789. Use of malathion-treated drying trays to protect raisins from insects during drying and storage [with list of literature cited; by Howard D. Nelson, Garth H. Spitzer, and Albert P. Yerington]. [July 1967.] [2]+14 p. il. 4° (Agricultural Research Service.) \* Paper, 15c.  
L.C. card Agr 67-340
- 15860 793. Comparison of spinning performances of cottons with varying fiber properties, San Joaquin Valley of California, 1964-65 season; [by John H. Turner, Franklin E. Newton, and Paul Whaley]. [Sept. 1967.] [2]+6 p. 4° (Agricultural Research Service.) † L.C. card Agr 67-361
- 15861 794. Comparative study of methods of distributing methyl bromide in flat storages of wheat, gravity-penetration, single-pass, and closed-recirculation; [by C. L. Storey]. [Aug. 1967.] iv+16 p. il. 4° (Agricultural Research Service.) \* Paper, 15c.  
L.C. card Agr 67-344
- 15862 795. Predicting quality of stored soybean oils; [by Lewis A. Baumann]. [Sept. 1967.] [2]+22 p. il. 4° (Agricultural Research Service.) \* Paper, 20c.  
L.C. card Agr 67-345
- 15863 796. Quality and display life of carnation blooms after storage in controlled atmospheres [with list of literature cited; by M. Uota and M. Garazsi]. [Sept. 1967.] [2]+9 p. il. (Agricultural Research Service.) \* Paper, 10c.  
L.C. card Agr 67-352

# GOVERNMENT PUBLICATIONS

## Marketing research reports—Continued

- 15864 799. Costs of drying and storing rough rice in Louisiana and Texas [with selected bibliography; by Harlon D. Traylor, Carter Price, and Clyde B. Markeson]. [July 1967.] [1]+vi+43 p. il. 4° (Farmer Cooperative Service.) [Prepared in cooperation with Texas Agricultural Experiment Station, Department of Agricultural Economics and Agribusiness, Louisiana State University, and Agricultural and Mechanical College, Agricultural Experiment Station.] †  
L.C. card Agr 67-350

## Miscellaneous publication.

- 15865 1060. Swine feeder. June 1967. [2] p. il. 4° (Cooperative farm building plan 5988.) \* Paper, 5c. ● Item 13-A A 1.38:1060
- PA [Program aid] (series). ● Item 14-A A 1.68:(nos.)
- 15866 399. Packers and stockyards act, what it is, how it operates. [Slightly revised July 1967.] [1967.] [2]+8 p. il. (Packers and Stockyards Administration.) †
- 15867 526. This is 4-H. [Revised June 1967.] [1967.] 16 p. il. 4° (Federal Extension Service.) [Prepared in cooperation with State Land-Grant Universities.] †
- 15868 545. Timber, story of timber sale on national forest, national forests lands of many uses. [Slightly revised Aug. 1967.] [1967.] cover title, [16] p. il. 4° [Text on p. 3 of cover.] \* Paper, 20c.  
L.C. card Agr 67-351
- 15869 591. Your livestock claims, Packers and stockyards act can help you recover losses. [Slightly revised Aug. 1967.] [1967.] [2]+6 p. 4° (Packers and Stockyards Administration.) †
- 15870 809. Packers and stockyards act as it applies to auction markets, what it is, provisions, enforcement [with list of publications]. July 1967. [8] p. il. narrow 12° (Packers and Stockyards Administration.) [Supersedes AMS-284.] †
- 15871 812. Closing nutrition gap, Child nutrition act of 1966. [July 1967.] [11] p. il. oblong 48° (Consumer and Marketing Service.) †

## Picture story.

- 15872 202. Death of a giant: Dutch elm disease still takes its toll. Oct. 1967. 4 p. il. 4° (Agricultural Research Service.) † A 1.100:202

## Production research reports. ● Item 13-C

A 1.84:(nos.)

- 15873 98. Evaluation of cost factors in production and harvesting of potatoes [with list of literature cited; by G. W. French]. [Sept. 1967.] [2]+21 p. il. 4° (Agricultural Research Service.) \* Paper, 20c.  
L.C. card Agr 67-362
- 15874 99. Economical and efficient heating system for homes: [by Jerry O. Newman]. [2]+26 p. il. 4° (Agricultural Research Service.) \* Paper, 20c.  
L.C. card Agr 67-363
- 15875 Remarks by John A. Baker, Assistant Secretary, Department of Agriculture, at dedication of rural electric facility serving Puerto-Cito Reservation, Socorro County, N. Mex., Aug. 26, 1967. [1967.] 6 p. 4° (2562; USDA 2681-67.) † A 1.40: B 17/35
- 15876 Remarks by Secretary of Agriculture Orville L. Freeman at Governor's meeting of Utah farm leaders, Salt Lake City, Utah, Aug. 14, 1967. [1967.] 17 p. 4° (2380; USDA 2577-67.) † A 1.40: F 87/297
- 15877 Trustees of posterity, address by Secretary of Agriculture Orville L. Freeman before National Agricultural Youth Institute, Lincoln, Nebr., Aug. 14, 1967. [1967.] 14 p. 4° (2353; USDA 2542-67.) † A 1.40: F 87/295

## AIR FORCE DEPARTMENT, Defense Dept. Washington, D.C. 20330

## AFOSR (series). (Air Force Office of Scientific Research, Office of Aerospace Research.)

- 15878 67-0300. AFOSR research, current research program, and summary of research accomplishments [articles, with bibliographies; Dan Taylor, editor]. [1967.] vii+231 p. il. 4° ([Project 61445014.]) † Paper, \$3.00.  
● Item 422-B D 301.45/19-2: 67-0300  
L.C. card 67-62673
- 15879 Air Force comptroller; [Steve Canton, editor]. (USAF recurring publication 170-2; Office of Comptroller.) [Quarterly.] \* Paper, \$1.00 a yr., 25c. additional for foreign mailing; single copy 30c. ● Item 421-C D 301.73:(v.nos.& nos.)

vol. 1, no. 1— Oct. 1967—

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

**Air Force manual AFM (series).**

- 15880 101-3. See Federal Aviation Administration Handbook 6000.6.

**Air Force pamphlet AFP (series).**

- 15881 71-1-7. See Army Department Field manual FM 38-40.  
 15882 190-33. Releaseable data on United States Air Force aerospace vehicles. [June 15, 1967.] iv+107 p. il. 4° (Aerospace information handbook, v. 3.)  
 [Supersedes AFP 190-2-2, June 1, 1964. Issued with perforations.]  
 ‡ ● Item 421-A D 301.35:190-33

**Air Weather Service: Technical reports.**

D 301.40:(nos.)

- 15883 192. Natural environment of satellite in synchronous circular orbit [with list of references and bibliography]; by Henry W. Brandt. June 1967. cover title, iii+65 p. il. 4° [Issued with perforation.] ‡  
 15884 198. Radiosonde dew-point accuracies 40°C to -40°C [with list of references]; by Lloyd V. Mitchell. Aug. 1967. cover title, ii+24 p. il. 4° [Issued in looseleaf form.] ‡Environmental Technical Applications Center, USAF, Bldg. 159, Navy Yard Annex, Washington, D.C. 20333

- 15885 Do you measure up to Air Force ROTC? [1967.] 20 p. il. oblong 24° [Illustrations are colored.] ‡ ● Item 424 D 301.2:R 31/4/967

**Lunar charts and mosaic [chart of moon] series.**

D 301.49/4:(letters-nos.)

NOTE.—This series, which when complete will include LAC 11-13, 23, 26-27, 110-113, 125-127, may be purchased on a subscription basis, \$4.00; \$1.00 additional for foreign mailing.

- 15886 LAC 27. Geminus. Scale 1:1,000,000. 1st edition, July 1967. Aeronautical Chart and Information Center [Aug. 1967]. 22 x 29 in. [Lambert conformal projection. Published for Air Force and National Aeronautics and Space Administration. Clarification of surface features appears on verso.] \* Paper, 35c.  
 15887 LEM 1A. USAF lunar reference mosaic, lunar earthside hemisphere. Scale 1:10,000,000. 3d edition, July 1967. Aeronautical Chart and Information Center [July 1967]. 17 x 19 in. [Ortho graphic projection. Mosaic compiled Nov. 1962.] \* Paper, 35c.

**OAR (series). (Office of Aerospace Research.)**

- 15888 67-7. Air Force research resumes, 1966. Office of Aerospace Research [v.6]. [1967.] vii+541+[16] p. 4° (Office of Scientific and Technical Information.) ‡ Paper, \$3.00. D 301.69/3:67-7  
 15889 67-0010. See, below, Office of Aerospace Research, monograph 4.

**Office of Aerospace Research: Monograph.**

- 15890 4. Air Force basic research in high-performance filamentary composites [with list of references]; by John A. Rolston. Sept. 1967. cover title, [1]+10+[2] p. il. 4° (OAR 67-0010.) ‡ Paper, \$3.00. D 301.69/10:4

**Personnel Research Laboratory: Technical report PRL-TR (series). (Aerospace Medical Division, Air Force Systems Command, Lackland Air Force Base, Tex.)**

D 301.45/27:(nos.)

- 15891 66-16. Officer grade requirements project: 4. Development and validation of policy equation to predict Criterion Board ratings [with list of references]; by Joe T. Hazel, Raymond E. Christal, Ralph S. Hoggatt. Nov. 1966. vi+56+[2] p. 4° ([Project 7734, task 773402.]) ‡  
 15892 66-17. Job types of communications officers, DAFSC 3034 [with list of references]; by Llewellyn N. Wiley [and others]. Nov. 1966. cover title, v+37+[2] p. 4° ([Project 7734; task 773404.]) ‡  
 15893 67-1. Selecting a harem and other applications of policy-capturing model [with list of references]; by Raymond E. Christal. Mar. 1967. vi+10+[2] p. il. 4° ([Projects 7734, 7719, tasks 773402, 771901.]) ‡

**School of Aerospace Medicine: Technical report SAM-TR (series). (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.)**

D 301.26/13-6:(nos.)

- 15894 65-296. Evaluation of computer solution of exponential decay or washout curves [with list of references]; by Robert G. Rossing. Nov. 1966. cover title, 1907-10+[2] p. il. 4° ([Task 631902.]) [Reprinted from Journal of applied physiology, v. 21, no. 6.]  
 15895 66-258. Tissue oxygenation during hemorrhage in dogs breathing 1 and 3 atmospheres of oxygen [with list of references]; by Stephen M. Cain, John M. Connolly. Feb. 1967. cover title, 255-259+[2] p. il. 4° ([Task 775801.]) [Reprinted from Journal of applied physiology, v. 22, no. 2, Feb. 1967.]  
 15896 66-269. Immersion diuresis [with list of references]; by Noel C. Hunt, III. Feb. 1967. cover title, [1]+177-180+[2] p. il. 4° ([Task 793003.]) [Reprinted from Aerospace medicine, v. 38, no. 2, Feb. 1967.]

◆For Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

## GOVERNMENT PUBLICATIONS

### School of Aerospace Medicine—Continued

- 15897 66-276. Multifocal premature contractions, ECG finding of grave significance [with list of references; by] Philip R. Akre. Feb. 1967. cover title, [1]+198-201+[2] p. il. 4° [Reprinted from Aerospace medicine, v. 38, no. 2, Feb. 1967.]
- 15898 66-277. Space flight feeding systems, characteristics, concepts for improvement, and public health implications [with list of references; by] Norman D. Heidelbaugh. Dec. 1966. cover title, 1662-71+[2] p. il. 4° ([Task 775803.]) [Reprinted from Journal of American Veterinary Medical Association, v. 149, no. 12, Dec. 15, 1966.]
- 15899 67-50. Behavioral changes in rats at ground level following gestation and growth in 100% oxygen at reduced pressures [with list of references; by] Julian P. Cooke, William E. Pepelko. June 1967. cover title, iii+5+[2] p. il. 4° [Research conducted in Physiology Branch under task 775801.]
- 15900 67-59. Effects of prolonged stage 4 and 1-REM [rapid eye movement] sleep deprivation, EEG, task performance, and psychologic responses [with list of references]; by Robert L. Williams, H. W. Agnew, jr., Wilse B. Webb. July 1967. cover title, iii+10+[2] p. il. 4° ([Task 775504, contract AF 41 (609) 2907.])
- 15901 67-61. Effects of monomethylhydrazine upon renal function [with list of references]; by Fredric L. Coe, Robert W. Howe, James A. Goetting. July 1967. cover title, iii+7+[2] p. il. 4° ([Task 630207.])
- 15902 United States Air Force occupational handbook for airmen, manual for guidance counselors, 1967-68. [1967.] 44 p. il. 4° [Title on cover is: United States Air Force airman occupational handbook, 1967-68.] †  
 ● Item 424-F  
 L.C. card 57-61444 D 301.6/5: Oc 1/1967-68

### AIR TRAFFIC SERVICE, Transportation Dept. Washington, D.C. 20553

- 15903 International flight information manual, v. 15, Apr. 1967, amdt. 1: July 1967. [1967.] [47] p. 4° (Flight Information Division, National Flight Data Center (AT-430).) [Issued in looseleaf form.] \* Paper, \$1.25 (including basic manual and supplemental for foreign mailing. ● Item 431-C-18 TD 4.309: 15/amdt.1

### AIRPORTS SERVICE, Transportation Dept. Washington, D.C. 20553

- 15904 Aviation demand and airport facility requirement forecasts for large air transportation hubs through 1980. Aug. 1967. iii+130+19+25 p. 4° [Issued with perforations.] † ● Item 982-E-1 TD 4.102: Av 5

### ARMED FORCES INFORMATION AND EDUCATION, Defense Dept., Washington, D.C. 20301

DOD [pamphlets]. † ● Item 312-A D 2.14:(letters-nos.)

- 15905 AO-1A. Capsule facts for Armed Forces: Dominican Republic. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15906 AO-14. Same: Jordan. June 1967. [2] p. il. 4° [Adapted from Department of State Background notes series.]
- 15907 AO-24. Same: Malta. Aug. 1967. [4] p. il. 4° [Adapted from Department of State Background notes series.]
- 15908 AO-25. Same: Burundi. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15909 AO-26. Same: Afghanistan. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15910 AO-27. Same: Upper Volta. Aug. 1967. 3 p. il. 4° [Adapted from Department of State Background notes series.]
- 15911 AO-28. Same: Singapore. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15912 AO-29. Same: Cyprus. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15913 AO-30. Same: Albania. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15914 AO-31. Same: Norway. Aug. 1967. 3 p. il. 4° [Adapted from Department of State Background notes series.]
- 15915 AO-32. Same: Ecuador. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15916 AO-33. Same: Argentina. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15917 AO-34. Same: Australia. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 15918 AO-35. Same: Czechoslovakia. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15919 AO-39. Same: Yemen. Aug. 1967. 3 p. il. 4° [Adapted from Department of State Background notes series.]
- 15920 AO-40. Same: Seychelles. Aug. 1967. 3 p. il. 4° [Adapted from Department of State Background notes series.]
- 15921 AO-41. Same: Barbados. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15922 AO-42. Same: Cambodia. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 15923 AO-43. Capsule facts for Armed Forces: Burma. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]

ARMS CONTROL AND DISARMAMENT AGENCY  
Washington, D.C. 20451

- 15924 Control of local conflict. (ACDA/WEC-98; Center for International Studies, Massachusetts Institute of Technology.) ● Item 125-A-3  
L.C. card 67-62687 AC 1.2: C 76/v. (nos.)
- v. 1. Design study on arms control and limited war in developing areas: Summary report; prepared [by] Lincoln P. Bloomfield [and others]. June 30, 1967. iii+26 p. 4° \* Paper, 25c.
- v. 2. Same: [Defining problem, design study, and preliminary findings]; prepared [by] Lincoln P. Bloomfield [and others]. June 30, 1967. xii+235 p. il. 4° \* Paper, \$1.25.
- v. 3. Same: Studies of conflict; prepared [by] Amella C. Leiss [and others]. June 30, 1967. vi+880 p. il. 4° \* Paper, \$4.50.
- v. 4. Design study, relevance of factor analysis to study of arms control and limited war [with bibliography]; prepared by Thomas C. O'Sullivan. June 30, 1967. iii+44 p. il. 4° \* Paper, 30c.
- 15925 Documents on disarmament, 1966 [with bibliography; compiled and annotated by Robert W. Lambert, assisted by Ruth Ihara and Jacqueline S. Mithun]. [Sept. 1967.] xvi+903 p. il. ([Publication 43.]) \* Paper, \$2.50.  
● Item 865-B  
L.C. card 60-64408 AC 1.11/2: 966
- 15926 Non-proliferation treaty, why? [1967.] cover title, 9+[1] p. narrow 8° ([Publication 44.]) [Text on p. 2 of cover.] \* Paper, 15c. ● Item 125-A-3 AC 1.2: N 73

ARMY DEPARTMENT, Defense Dept.  
Washington, D.C. 20310

- AMC pamphlets. (Army Material Command.) ‡ ● Item 322-A  
D 101.22/3: (nos.)
- 15927 310-1. Military publications: Index of AMC publications and blank forms Change 1. Sept. 1, 1967. 5 p. 4° [Issued with perforations.]
- 15928 706-296. Engineering design handbook: Surface-to-air missile series, pt. 6. Structure and power sources [chap. 12-15, with lists of references]. Aug. 1967. cover title, xviii+[215] p. il. 1 pl. 4° [Reprint, without change, of ORDP 20-296, which was redesignated AMCP 706-296. Issued with perforations.]  
L.C. card 67-62569
- Army Materiel Command regulations AMCR (series).
- 15929 385-224. Safety, AMC safety manual, Change 13. May 3, 1966. [37] p. il. 16° [Issued with perforations.] \* Paper, 20c. ● Item 323  
D 101.9/2: 385-224/ch.13
- Cold Regions Research & Engineering Laboratory, Hanover, N.H.: Research reports. (Army Materiel Command.)
- 15930 214. Role of slanting in snow construction [with list of literature cited]; by René O. Ramseler. July 1967. iv+10+[2] p. il. 4° (DA task IV014501B52A02.) ‡ D 103.33/3: 214
- Special report. (Army Materiel Command.)
- 15931 112. Understanding variations of physical properties of sea ice [with list of literature cited]; by W. F. Weeks. May 1967. iii+15+2 p. il. 4° (DA task IV014501B52A02.) [Based on talk given at Symposium on Antarctic Oceanography, held at Santiago, Chile, Sept. 1966.] ‡ D 103.33/2: 112

⌘For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

Cold Regions Research & Engineering Laboratory, Hanover, N.H. Technical reports. (Army Materiel Command.) D 103.33:(nos.)

15932 133. Approach roads, Greenland, 1960-64 [with list of literature cited]; by Robert Davis. June 1967. vi+40+[2] p. il. 1 pl. 4° (DA task IV025001A13001.)  $\Phi$  Paper, \$3.00.

15933 197. Some observations on densification of alpine snow covers [with list of literature cited]; by Charles M. Keeler. July 1967. iv+13+[2] p. il. 4° ([DA task IV014501B52A02.])  $\dagger$

15934 Command safety program manual [with list of references]. [Oct. 1, 1967.] cover title, ii+31+[68] p. 4° (United States Army Security Agency.) [Supersedes USASA regulation 385-1 and 420-1, May 16 and Nov. 1, 1966.]  $\dagger$   $\bullet$  Item 325-B D101.6/5: Sa 1

Field manual FM (series).  $\dagger$   $\bullet$  Item 324 D 101.20:(nos.)

15935 1-100. Army aviation utilization, Change 1. Aug. 10, 1967. 14+[1] p. 4° [Issued with perforations.]

15936 3-8. Chemical reference handbook [with list of references]. Jan. 1967. cover title, 132 p. il. 1 pl. 4° [Issued with perforations. Supersedes FM 3-8, May 7, 1963, including Changes 1, July 31, 1964.]

15937 11-157. Signal large headquarters, operation company [with list of references]. June 1967. cover title, 36 p. il. 4° [Issued with perforations.]

15938 38-40. Packaging administration. Change 1, Aug. 3, 1967. [1967.] [44] p. il. 4° (Navy Dept. NAVSUP P451, Air Force Dept. AFP 71-1-7; Marine Corps, MCO P4030.24, Defense Supply Agency, DSAM 4145.6.) [Issued with perforations.]

Pamphlets.  $\dagger$   $\bullet$  Item 327 D 101.22:(nos.)

15939 360-230. Troop topics: Prisoners of war. Sept. 1967. cover title, [24] p. il. 4° [Text on p. 2-4 of cover.]

15940 360-300. Officers' call: Theirs to reason why. [Aug. 1967.] cover title, [24] p. il. 4° [Supersedes DA Pam 360-300, Aug. 1964.]

15941 550-56. Area handbook for Kenya [with bibliographies; by] Irving Kaplan [and others]. July 1967. xii+707 p. il. [Prepared by Foreign Area Studies, American University, Washington, D.C. Research and writing completed on May 15, 1966.] L.C. card 67-62739

15942 600-8. Unit personnel officer's guide, Change 16. Aug. 2, 1967. [56] p. 4° [Issued in looseleaf form.]

15943 Procurement and production, manufacturing methods and technology, 5-year program FY 1968-72. Aug. 1967. cover title, [3] leaves+ii+329 p. 4° (Army Materiel Command.)  $\dagger$   $\bullet$  Item 325 D 101.2: M 31/5  
L.C. card 67-62727

15944 Summary of 13th National Conference of Civilian Aides to Secretary of Army, Fort Gordon, Ga., May 21-23, 1967. [1967.] cover title, iii+84 p. il.  $\dagger$   $\bullet$  Item 325 D 101.2: C 49/3/967

Technical manual TM (series).  $\dagger$   $\bullet$  Item 329 D 101.11:(nos.)

15945 5-241-1. Grids and grid references [with list of related references]. June 1967. cover title, 192+[1] p. il. 4° [Issued with perforations. Supersedes TM 5-241-1, Sept. 14, 1962.]

15946 10-277. Protective clothing, chemical operation [with list of references]. July 1967. cover title, 36+[1] p. il. 4° [Text on p. 2 of cover. Issued with perforations.]

15947 10-281. Field bakery operations [with list of references]. May 1967. cover title, 40 p. il. 4° [Issued with perforations.]

15948 10-404. Ration breakdown point operations [with list of references]. May 1967. cover title, 48 p. il. 4° [Supersedes TM 10-404, May 17, 1963 and rescinds DA form 2688, May 1, 1963. Issued with perforations.]

15949 10-500-18. Airdrop of supplies and equipment: Rigging  $\frac{1}{4}$ -ton cargo trailer [with list of references]. May 1967. cover title, 26+[1] p. il. 4° (Air Force Dept. technical order TO 13C7-3-371.) [Issued with perforations. Supersedes TM 10-500-18/TO 13C7-3-371, Nov. 18, 1965.]

15950 10-500-19. Same: Rigging 105-mm howitzers [with lists of references]. June 1967. cover title, 71+[2] p. il. 4° (Air Force Dept., Technical order TO 13C7-10-31.) [Issued with perforations. Supersedes TM 10-500-19/TO 13C7-10-31, Mar. 4, 1966.]

15951 10-500-69. Same: Rigging trailer-mounted air compressors [with list of references]. June 1967. cover title, 19+[2] p. il. 4° (Air Force Dept. technical order TO 13C7-15-61.) [Issued with perforations. Supersedes TM 10-500-69/TO 13C7-15-61, May 24, 1965.]

15952 10-500-87. Same: Rigging M 28 and M 29 weapon systems, Change 1. Aug. 18, 1967. [39] p. il. 4° (Air Force Dept. technical order TO 13C7-47-1 [change 1].) [Issued in looseleaf form.]

15953 11-684. Principles and applications of mathematics for communications-electronics, Change 1. July 24, 1967. 13 p. 4°

\*For Sale by Superintendent of Documents

$\dagger$ Distribution Made by Issuing Office

$\dagger$ Official Use. Not Available



# NOVEMBER 1967

- 15954 11-2557-28. See Federal Aviation Administration Handbook 6000.6.  
 USAAVLABS technical report. (Army Aviation Materiel Laboratories, Fort Eustis, Va.)
- 15955 67-32. Fluidic systems design manual [with bibliography]; by Charles A. Belsterling. July 1967. [1]+xv+183+[2] p. il. 4° (Task 1F121401-A14186, contract DA 44-177-AMC-390 (T); report ARD-DM-052.) [Prepared by Astromechanics Research Division, Glannint Controls Groups, Conrac Corporation, Malvern, Pa.] ‡ D 117.8/2: 67-32

## ARMY MEDICAL SERVICE, Defense Dept. Washington, D.C. 20310

- 15956 Annual report, Surgeon General, Army, fiscal year 1966; compiled by Historical Unit. [1967.] vii+140 p. il. 1 pl. ‡ ● Item 349-C D 104.1: 966

## ATOMIC ENERGY COMMISSION Washington, D.C. 20545

- 15957 AEC licensing guide: Industrial radiography, guide on radiation safety considerations in preparation of license applications. June 1967. v+71 p. il. 4° (Division of Materials Licensing.) [Text on p. 2 of cover. Issued with perforations.] \* Paper, 50c. ● Item 1051-F  
 L.C. card 67-62665 Y 3.At 7: 6-4R 11/967
- AEC research and development reports. Y 3.At 7: 22/(letters-nos.)
- 15958 CONF-650847. Proceedings of Conference on Radiation Biology, held at Oak Ridge Associated Universities, Oak Ridge, Tenn., Aug. 2-5, 1965 [with bibliographies]. [June 1967.] cover title, v+63 p. il. 4° [Sponsored by Oak Ridge National Laboratory, University of Tennessee Agricultural Research Laboratory, Oak Ridge Associated Universities.] ‡ Paper, \$3.00.
- 15959 CONF-661010. Compartments, pools, and spaces in medical physiology, proceedings of symposium held at Oak Ridge Institute of Nuclear Studies, operating unit of Oak Ridge Associated Universities. Oct. 24-27, 1966 [with lists of references]; editors Per-Erik E. Bergner, C. C. Lushbaugh, technical editor, Elizabeth B. Anderson. Aug. 1967. vi+522 p. il. ([AEC symposium series 11.]) ‡ Paper, \$3.00.  
 L.C. card 67-61865
- 15960 CONF-670305. Proceedings of 1st international symposium on biological interpretation of dose from accelerator-produced radiation, held at Lawrence Radiation Laboratory, Berkeley, Calif., Mar. 13-16, 1967 [with list of references]; edited by Roger Wallace. [1967.] x+403 p. il. 4° [Sponsored by Division of Operational Safety.] ‡ Paper, \$3.00.
- 15961 IS-1611. Bibliography of 1966 mass spectroscopy literature compiled by computer method; by J. Capellen, H. J. Svec, C. R. Sage. July 1967. cover title, [1]+637 p. 4° (Ames Laboratory, Iowa State University, Ames, Iowa.) ‡ Paper, \$3.00.
- 15962 PNE-1111. Plowshare, civil, industrial and scientific uses for nuclear explosives, Project Pre-Gondola 1, Fort Peck Reservoir, Mont.: Preshot geophysical measurements [with list of references; by] R. T. Stearns, J. T. Rambo. July 1967. cover title, 58 p. il. 4° (U.S. Army Engineer Nuclear Cratering Group, Livermore, Calif.) ‡ Paper, \$3.00.
- 15963 RMO-3007. Design and descriptions of mechanical samplers in use at Grand Junction, Colo. Dec. 15, 1966. cover title, ii+22 p. il. 4° (Western Uranium project, Lucius Pitkila, Inc., Grand Junction, Colo.; [contract AT (05-1)-912].) ‡ Paper, \$3.00.
- 15964 SAN-679-1. Electrical component technology for 0.25 to 10.0 megawatt space power systems, design study, quarterly technical progress report: no. 1, Sept. 1-Nov. 30, 1966 [with list of references]; edited by A. E. King. Aug. 1967. cover title, [1]+vi+154 p. il. 4° (Aerospace Electrical Division, Westinghouse Electric Corporation, Lima, Ohio; [contract AT(04-3)-679].) ‡ Paper, \$3.00.
- 15965 SAN-679-2. Same: no. 2, Dec. 1, 1966-Feb. 28, 1967 [with list of references]; edited by A. E. King. Aug. 1967. cover title, xii+233 p. il. 4° (Aerospace Electrical Division, Westinghouse Electric Corporation, Lima, Ohio; [contract AT(04-3)-679].) [Page 233 on p. 3 of cover.] ‡ Paper, \$3.00.

‡For Sale by Clearinghouse, U.S. Department of  
 Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 9

# GOVERNMENT PUBLICATIONS

## AEC research and development reports—Continued

- 15966 TID-4005(pt. 6) (rev.). Summaries of research in high energy physics. July 1967. vi+143 p. 4° (Division of Research AEC, Washington, D.C.) [Indexes prepared by Division of Technical Information Extension, Oak Ridge, Tenn.]  $\Phi$  Paper, \$3.00.
- 15967 TID-5360(supp. 1) (rev.). Summary of industrial accidents in USAEC facilities. 1956. Aug. 1967. cover title, v+21 p. 4° ([Industrial Safety & Fire Protection Branch, Division of Operational Safety.])  $\Phi$  Paper, \$3.00.
- 15968 TID-8200(16th rev.). Nuclear reactors built, being built, or planned in United States as of June 30, 1967; prepared by Office of Assistant General Manager for Reactors. [1967.] cover title, 30+[4] p. ll. 4°  $\Phi$  Paper, \$3.00.
- 15969 TID-23872. Policy considerations in desalting and energy development and utilization [with list of references]; by James T. Ramey. July 1967. [1]+20 p. ll. [Text on p. 2 of cover.]  $\dagger$
- 15970 Livermore, fifteen years of achievement, remarks, by Glenn T. Seaborg, Chairman, Atomic Energy Commission at 15th anniversary and dedication of Radiochemistry building, Lawrence Radiation Laboratory, Livermore, Calif., operated by University of California, Sept. 9, 1967. [1967.] 10 p. 4° (S-34-67.)  $\dagger$  Y 3.At 7: 34Se 1/146
- 15971 Nuclear science abstracts, cumulative index, v. 16-20, 1962-66: Subjects. [1967.] (Division of Technical Information.) \* Paper, \$36.00 for 11-volume set. • Item 1051-A  
L.C. card 50-4390 Y 3.At 7: 16-2/16-20/ind.subj.A-Z  
A-B. [6]+1-680 p. 4°  
C-D. [6]+681-1408 p. 4°  
E-G. [6]+1409-2142 p. 4°  
H-L. [6]+2143-2788 p. 4°  
M. [6]+2789-3278 p. 4°  
N. [6]+3279-3755 p. 4°  
O-P. [6]+3757-4418 p. 4°  
Q-R. [6]+4419-4987 p. 4°  
S. [6]+4989-5528 p. 4°  
T-U. [6]+5529-6146 p. 4°  
V-Z. [6]+6147-6538 p. 4°
- 15972 Promise of International Atomic Energy Agency, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, at International Theoretical Physics Conference on Particles and Fields, University of Rochester, Rochester, N.Y., Aug. 31, 1967. 1967. 13 p. 4° (S-33-67.)  $\dagger$   
Y 3.At 7: 34Se 1/145
- 15973 Radiation monitoring, programmed instruction book; by James E. Wade and G. E. Cunningham. Aug. 1967. vi+281 p. ll. (Division of Technical Information.)  $\dagger$   
L.C. card 67-62697 Y 3.At 7: 2R 11/29
- 15974 Remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, and U.S. representative to 11th general conference of International Atomic Energy Agency, Vienna, Austria, Sept. 27, 1967. 1967. 10 p. 4° (S-37-67.)  $\dagger$   
Y 3.At 7: Se 1/149
- 15975 Stanford Linear Accelerator Center, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, at dedication of Stanford Linear Accelerator Center, Stanford, Calif., Sept. 9, 1967. 1967. 4 p. 4° (S-35-67.)  $\dagger$   
Y 3.At 7: 34Se 1/147
- 15976 Technological innovation and human goals, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, at Industrial Research-100 Award banquet, New York, N.Y., Sept. 19, 1967. 1967. 12 p. 4° (S-36-67.)  $\dagger$   
Y 3.At 7: 34Se 1/148
- Understanding the atom series. (Division of Technical Information.)
- 15977 Animals in atomic research [with list of suggested references; by Edward R. Ricciuti]. [Aug. 1967.] cover title, [2]+54 p. ll. [Text on p. 2 and 3 of cover.]  $\dagger$  Atomic Energy Commission, P.O. Box 62, Oak Ridge, Tenn. 37830  
L.C. card 67-62475 Y 3.At 7: 54 An 5
- 15978 Atom and the ocean [with list of suggested references; by E. W. Seabrook Hull]. [July 1967.] cover title, [2]+61 p. ll. [Text on p. 2 and 3 of cover.]  $\dagger$  Atomic Energy Commission, P.O. Box 62, Oak Ridge, Tenn. 37830  
L.C. card 67-62476 Y 3.At 7: 54 Oc 2

\*For Sale by Superintendent of Documents

$\dagger$ Distribution Made by Issuing Office

$\dagger$ Official Use. Not Available

AVIATION MEDICINE OFFICE, Transportation Dept.  
Washington, D.C. 20553

Aviation medical report AM (series). TD 4.210: (nos.)

- 15979 67-3. Development of techniques for evaluating physiological protective efficiency of civil aviation oxygen equipment [with list of references; by] Ernest B. McFadden. Apr. 1967. [4]+16+[2] p. il. 4° Φ Paper, \$3.00.
- 15980 67-6. Adaptation to vestibular disorientation: 5, Eye-movement and subjective turning responses to 2 durations of angular acceleration [with list of references; by] William E. Collins, Fred E. Guedry, jr. May 1967. [4]+14+[2] p. il. 4° Φ Paper, \$3.00.
- 15981 67-12. Adaptation to vestibular disorientation: 7, Special effects of brief periods of visual fixation on nystagmus and sensations of turning [with list of references; by] William E. Collins. May 1967. [4]+15+[2] p. il. 4° Φ Paper, \$3.00.

BONNEVILLE POWER ADMINISTRATION, Interior Dept.  
Portland, Oreg. 97208

- 15982 Generation and sales statistics, fiscal year 1967. [Aug. 7, 1967.] 6 p. il. 4° ([Branch of Customer Service, Rates & Statistics.]) [Pages 4-6 issued as leaves.] †  
L.C. card 54-61687 I 44.8: 967

BUSINESS AND DEFENSE SERVICES ADMINISTRATION,  
Commerce Dept., Washington, D.C. 20230

- 15983 Analysis of U.S. exports of scientific, industrial and technical instruments, 1958-66; [prepared by Frank Meluick]. Sept. 1967. 11 p. 4° † Paper, 10c.  
L.C. card 67-62748 C 41.2: In 7/958-66
- 15984 Metal cutting tool industry 1961-66. Aug. 1967. 15 p. il. 4° † Paper, 25c.  
L.C. card 67-62747 C 41.2: M 56/2/961-66
- 15985 Service industries, their problems and prospects, address by Jacob E. Katz, Director, Office of Marketing and Services, Business and Defense Services Administration, Department of Commerce, prepared for delivery at Servicemaster National Convention, Chicago, Ill., Aug. 22, 1967. [1967.] 10 p. 4° †  
C 41.15: K 15/4
- 15986 Starch and related products in selected countries; [prepared by Edward L. Herbert and Jill Kugler]. Aug. 1967. v+42 p. il. 4° \* Paper, 30c.  
● Item 215  
L.C. card 67-62155 C 41.2: St 2

CENSUS BUREAU, Commerce Dept.  
Suitland, Md. 20233

County business patterns CBP (series). ([Business Division.]) [Prepared in cooperation with Social Security Administration.]

- 15987 66-1. U.S. summary, 1966. [Sept. 1967.] cover title, xii+298 p. il. 4° \* Paper, \$2.00. ● Item 133-A  
L.C. card 49-45747 C 3.204: 66-1
- Current housing reports: Series H-111, Housing vacancies. \* Paper, \$1.00 (including Series H-111 and H-121 for one year), \$1.25 additional for foreign mailing; single copy, 20c. ● Item 141-A
- 15988 49. Vacant housing units in United States, 2d quarter 1967. Aug. 1967. 15 p. 4°  
C 3.215: H-111/49
- Series H-12, Housing characteristics. \* Paper, \$1.00 (including Series H-111 and H-121) 25c. additional for foreign mailing, single copies vary in price.
- 15989 13A. Television households with UHF sets and color sets in selected metropolitan areas, Aug. 1966. Mar. 1967. [2] p. 4° \* Paper, 20c. ● Item 141-A  
C 3.215: H 121/13A
- 15990 Current industrial reports: Aircraft propellers, 1966. Sept. 5, 1967. 1 p. 4° (Series MA-37E (66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-37E(66)-1

ΦFor Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

- 15991 Current industrial reports: Aluminum ingot and mill products, summary for 1966. Sept. 19, 1967. 5 p. 4° (Series M33-2(66)-13.) † Paper, 15c.  
C 3.158: M33-2(66)-13
- 15992 —: Converted flexible packaging products, summary for 1966. Aug. 31, 1967. 6 p. 4° (Series M26F(66)-13.) † Paper, 10c. ● Item 142-A  
C 3.158: M26F(66)-13
- 15993 —: Electric housewares and fans, 1966. Aug. 17, 1967. 3 p. 4° (Series MA-36E(66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-36E(66)-1
- 15994 —: Electric lamps, summary for 1966. Sept. 19, 1967. 10 p. 4°. (Series M36B(66)-5.) † Paper, 25c. ● Item 142-A C 3.158: M36B(66)-5
- 15995 —: Farm machines and equipment, 1966 (preliminary). Aug. 31, 1967. for 1966. Sept. 19, 1967. 5 p. 4° (Series M33-2(66)-13.) † Paper, 15c. 16 p. 4° (Series M35(66)-5.) † Paper, 25c. ● Item 142-A  
C 3.158: M35A(66)-5/prelim.
- 15996 —: Farm pumps, shipments by destination, 1966. Sept. 18, 1967. [2] p. 4° (Series MA-35 G.1(66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-35G.1(66)-1
- 15997 —: Hardwood plywood, preliminary, 1966. Sept. 5, 1967. 4 p. 4° (Series MA-24F(66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-24F(66)-1/prelim.
- 15998 —: Metal cans, summary for 1966. Sept. 26, 1967. 15 p. 4° (Series M34D(66)-13.) † Paper, 15c. ● Item 142-A C 3.158: M34D(66)-13
- 15999 —: Mining machinery and equipment, 1966. Sept. 13, 1967. 2 p. 4° (Series MA-35F(66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-35F(66)-1
- 16000 —: Office, computing, and accounting machines, 1966. Sept. 27, 1967. 4 p. 4° (Series MA-35R(66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-35R(66)-1
- 16001 —: Pharmaceutical preparations, except biologicals, 1966. Oct. 17, 1967. 6 p. 4° (Series MA-28G(66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-28G(66)-1
- 16002 —: Selected atomic energy products, 1966. Sept. 18, 1967. 4 p. 4° (Series MA-38Q(66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-38Q(66)-1
- 16003 —: Softwood plywood, 1966. Sept. 21, 1967. 4 p. 4° (Series MA-24H(66)-1.) † Paper, 25c. ● Item 142-A C 3.158: MA-24H(66)-1
- 16004 —: Tractors, except garden tractors, 1966. Sept. 1, 1967. 3 p. 4° (Series M35S(66)-13.) † Paper, 15c. ● Item 142-A  
C 3.158: M35S(66)-13
- 16005 —: Tufted textile products, July-Dec. 1966 (preliminary). May 26, 1967. 4 p. 4° (Series M22L(66)-2; Industry Division.) [Change sheet, dated Oct. 11, 1967, 1 p., issued also.] † Paper, 25c. ● Item 142-A  
C 3.158: M22L(66)-2/prelim.
- 16006 —: Tufted textile products, Jan.-June 1967. Sept. 21, 1967. 3 p. 4° (Series M22L(67)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: M22L(67)-1
- 16007 —: Wiring devices and supplies, 1966. Sept. 6, 1967. 4 p. 4° (Series MA-36K(66)-1.) † Paper, 25c. ● Item 142-A  
C 3.158: MA-36K(66)-1
- Current population reports: Series P-20, Population characteristics. \* Paper, \$5.00 (including Series P-20, P-23, P-25, P-28 summaries, P-60, and P-65 for one year), \$1.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C C 3.186: P-20/(nos.)
- 16008 166. Households and families, by type, 1967 (advance data from Mar. 1967 sample survey). Aug. 24, 1967. 4 p. 4° \* Paper, 5c.
- 16009 167. School enrollment, Oct. 1966. Aug. 30, 1967. ii+16+[1] p. il. 4° \* Paper, 10c.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

—: Series P-25, Population estimates. \* Paper, \$5.00 (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60, and P-65 for one year), \$1.50 additional for foreign mailing; single copy, prices vary.  
● Item 142-C C 3.186: P-25/(nos.)

- 16010 369. Estimates of population of United States, Jan. 1, 1950 to May 1, 1967. June 28, 1967. 2 p. 4° \* Paper, 15c.  
16011 370. Estimates of population of United States, Jan. 1, 1950 to June 1, 1967. July 18, 1967. 2 p. 4° \* Paper, 15c.  
16012 372. Estimates of population of United States, Jan. 1, 1950 to July 1, 1967. Aug. 21, 1967. 2 p. 4° \* Paper, 15c.  
16013 374. Provisional estimates of population of selected large metropolitan areas, July 1, 1966, report 1. Sept. 15, 1967. 5 p. 4° \* Paper, 5c.  
16014 375. Revised projections of population of States, 1970-85; [prepared by Meyer Zitter and Richard Irwin, with technical collaboration of Henry S. Shryock]. Oct. 3, 1967. cover title, 1+110 p. il. 4° ([Population Division.]) \* Paper, 60c.  
16015 376. Estimates of population of United States, Jan. 1, 1950 to Aug. 1, 1967. Sept. 21, 1967. 2 p. 4° \* Paper, 5c.

—: Series P-28, Special censuses. \* Paper, \$5.00 (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60, and P-65 for one year), \$1.50 additional for foreign mailing; single copy, prices vary.  
C 3.186: P-28/(nos.)

NOTE.—Only the summaries for Series P-28 are included in the subscription. Censuses for individual cities and towns are sold by the Census Bureau at the prices indicated.

- 16016 1446. Special census of Fort Wayne, Ind., Jan. 24, 1967. [Revised] Sept. 26, 1967. [1967.] 26+[1] p. il. 4° † Paper, 25c.  
16017 1448. Special census of Orange County, N.Y., Mar. 15, 1967. July 7, 1967. 7 p. 4° † Paper, 10c.  
16018 1450. Summary of special censuses conducted by Bureau of Census between Jan. 1 and Mar. 31, 1967. July 25, 1967. 4 p. 4° \* Paper, 15c. ● Item 142-C  
16019 1451. Special census of Niagara County, N.Y., Apr. 3, 1967. [Revised] Sept. 5, 1967. [1967.] 32+[2] p. il. 4° † Paper, 25c.  
16020 1452. Special census of Greece town, N.Y., Mar. 30, 1967. Aug. 21, 1967. 10 p. il. 4° † \* Paper, 10c.  
16021 1453. Special census of Memphis, Tenn., Mar. 27, 1967. Sept. 6, 1967. 58 p. il. 4° † Paper, 50c.  
16022 1454. Special census of Huntington town, N.Y., May 3, 1967. Sept. 19, 1967. 20 p. il. 4° † Paper, 25c.  
16023 1455. Summary of special censuses conducted by Bureau of Census between Apr. 1 and June 30, 1967. Sept. 21, 1967. 4 p. 4° \* Paper, 5c. ● Item 142-C  
16024 1456. Special census of Babylon town, N.Y., May 6, 1967. Sept. 28, 1967. 22+[1] p. il. 4° † Paper, 25c.  
16025 1457. Special census of Skokie, Ill., June 26, 1967. Oct. 5, 1967. 8+[1] p. il. 4° † Paper, 10c.

— Series P-60, Consumer income. \* Paper, \$5.00 (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60, and P-65 for one year), \$1.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C  
16026 52. Average family income up 7 percent in 1966 (advance data from Mar. 1967 sample survey). Aug. 21, 1967. 6+[1] p. 4° \* Paper, 15c.  
C 3.186: P-60/52

— Series P-65, Consumer buying indicators. \* Paper, \$5.00 (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60 and P-65 for one year), \$1.50 additional for foreign mailing; single copy, prices vary.  
16027 19. Report on current economic activity of U.S. households, recent purchases of cars and household durables and expected expenditures during months ahead, data through July 1967. Sept. 29, 1967. 11+25 p. il. 4° [Errata sheet, dated Oct. 5, 1967, 1 p., issued also.] \* Paper, 20c. ● Item 142-C  
C 3.186: P-65/19

Data access descriptions: Automated address coding guide and data retrieval series, AAC-. [Intended as introductions to means of access to unpublished data of Bureau of Census, for persons with data requirements not fully met by published reports. Issued with perforations.]

- 16028 1. Address coding guide and register, general applications. Aug. 1967. 4 p. 4° †  
C 3.240/2:1

Geographic reports, GE-10 (series).

- 16029 4. Supplement 1, Congressional district identification of counties and selected places (districts of 90th Congress). Aug. 1967. 3 p. il. 4° \* Paper, 5c.  
● Item 146-B C 3.208: 10/no.4/supp.1

# GOVERNMENT PUBLICATIONS

## GF (series).

C 3.191/2: (nos.)

- 16030 13. Governmental finances in 1965-66, correction notice. Aug. 28, 1967. 1 p. 4° †  
 16031 14. Local Government finances in selected metropolitan areas in 1965-66. [Sept. 1967.] iii+38+[1] p. il. 4° (Governmental finances; [Governments Division].) \* Paper, 30c. ● Item 146-E  
 L.C. card A59-10097

- 16032 Metropolitan area statistics. [Sept. 1967.] cover title, 897-944 p. [Reprint from Statistical abstract of United States, 1967.] \* Paper, \$18.75 per 100, single copy 25c. C 3.134/2a: St 2

## Quarterly public construction reports GC-(series).

- 16033 9. Construction expenditure of State and local governments, Jan.-Mar. 1967. July 1967. 3 p. 4° † Paper, 10c. ● Item 148-A C 3.215/10: 9

## Quarterly tax reports GT-(series).

- 16034 9. Quarterly summary of State and local tax revenue, Jan.-Mar. 1967. June 1967. 7 p. il. 4° † Paper, 10c. ● Item 146-E C 3.145/6: 9

## Technical paper.

- 16035 17. Trends in the income of families and persons in United States, 1947-64; by Mary F. Henson. [Aug. 1967.] vi+294 p. 4° (Population Division.) \* Paper, \$1.50. ● Item 151-A  
 L.C. card A67-7058 C 3.212: 17

United States census of agriculture, 1964; farms, farm characteristics, livestock and products, crops, fruits, values: v. 1 [State and county statistics], pt. [Prepared in Agriculture Division. Supersedes statistics shown in preliminary reports series AC64-PL]

C 3.31/4: 964/v.1/pt. (nos.)

- 16036 24. Virginia. [1967.] [4]+563+[25] p. il. 4° \* Paper, \$3.25. ● Item 152-A-15  
 16037 26. North Carolina. [1967.] [4]+483+[25] p. il. 4° \* Paper, \$3.25. ● Item 152-A-16  
 16038 28. Georgia. [1967.] [4]+591+[25] p. il. 4° \* Paper, \$4.00. ● Item 152-A-17  
 16039 30. Kentucky. [1967.] [4]+455+[25] p. il. 4° \* Paper, \$3.00. ● Item 152-A-19  
 16040 31. Tennessee. [1967.] [4]+443+[25] p. il. 4° \* Paper, \$3.00. ● Item 152-A-20

## — v. 3 [Special reports], pt.

- 16041 1. Data-collection forms and procedures for census and related surveys. [1967.] [3]+64 p. 4° ([Agriculture Division and Statistical Reports Division.]) \* Paper, 45c. ● Item 152 C 3.31/5: 964/v.3/pt. I

## CHILDREN'S BUREAU, Health, Education, and Welfare Dept. Washington, D.C. 20201

NOTE.—The Children's Bureau has been assigned to the Social and Rehabilitation Service which was established August 15, 1967, by the Secretary of the Department of Health, Education, and Welfare in a major realignment of Federal welfare rehabilitation and social welfare service programs. The Welfare Administration was disestablished on the same date.

## Publication.

- 16042 452. Lead poisoning in children [with list of references: by] Jane S. Lin-fu. 1967. [2]+25 p. 12° [Text on p. 2 of cover.] \* Paper, 15c. ● Item 453  
 FS 17.210: 452

## Statistical series.

- 16043 84. Supplement to Child welfare statistics-1965, adoptions in 1965. 1966. [2]+8 p. 4° † FS 14.113: 84/supp.  
 16044 Two articles on family life and sex education. [1967.] [3]+130-140+[2] p. il. 4° [Reprinted from Children, v. 14, no. 4, July-Aug. 1967.] \* Paper, 10c. FS 14.109/a: F 21/3

## CIVIL AERONAUTICS BOARD Washington, D.C. 20428

- 16045 Career opportunities for attorneys with Civil Aeronautics Board. [1967.] cover title, 16 p. il. narrow 8° † ● Item 183 C 31.202: At 8  
 16046 Civil Aeronautics Board reports: v. 39, Economic and safety enforcement cases of Civil Aeronautics Board, Sept. 1963-Feb. 1964. [1967.] xxv+1209 p. il. \* Cloth, \$4.25. ● Item 179  
 L.C. card 42-38246 C 31.211: 39

\*For Sale by Superintendent of Documents  
 †Distribution Made by Issuing Office  
 ‡Official Use. Not Available

# NOVEMBER 1967

- 16047 Introduction to airfreight rates. [1967.] cover title, ii+21 p. il. 4° †  
● Item 183 C 31.202: Ai 7/8
- 16048 Regulations of Civil Aeronautics Board [as amended to Nov. 1, 1963, new and revised pages]; Sept. 15, 1967. [1967.] [45] p. 4° [Includes transmittal sheet 36. Issued in looseleaf form.] \* Paper, \$6.50 (including basic book and supplementary service for an indefinite period); \$2.00 additional for foreign mailing. ● Item 186 C 31.206/7: 963/trans.36
- 16049 Remarks of Charles S. Murphy, Chairman, Civil Aeronautics Board at 10th annual dinner, Air Freight Forwarders Association, New York City, Sept. 29, 1967. [1967.] 9 p. 4° † C 31.215: M 95/44

## CIVIL DEFENSE OFFICE (Army), Defense Dept. Washington, D.C. 20310

[Handbook] H (series). ● Item 857-D-10 D 119.8/2:(nos.)

- 16050 11. Community and family service for civil defense, how organizations can advance their community civil defense program. July 1967. 26+[1] p. il. †
- 16051 11-A. Community involvement in civil defense, suggestions by American National Red Cross. July 1967. 45 p. il. 12° [Page 45 left blank for notes. Supersedes H-11-A, May 1965.] †
- 16052 11-1. Meetings that move, to inform, to stimulate, to involve, to motivate, guide to successful meetings on civil defense: v. 1. Program materials on participative techniques, adjusting to living in nuclear age, preparedness and natural disasters, fallout shelters in schools. July 1967. cover title, 38+[5] p. il. 4° [Includes lists of available informational materials. Issued with perforations. Four pages are left blank for notes. Supersedes H-11-1, Aug. 1964, which may be used.] † Community Service Office, Office of Civil Defense, Department of Army, O.S.A., Washington, D.C. 20310

Leaflet L (series).

- 16053 41. Nuclear defense design for architects and engineers [courses, announcement]. July 1967. [10] p. il. narrow 8° [Supersedes L-41, Sept. 1965.] †  
● Item 857-D-5 D 119.13: 41/2

[Miscellaneous publication] MP (series). † ● Item 857-D-11 D 119.11:(nos.)

- 16054 20. Publications index. July 1967. viii+[2]+34 p. il. 4° [Issued with perforations. Supersedes MP-20, Jan. 1967.]  
L.C. card 59-61734
- 16055 48. Labor's role in State, county, and local civil defense, labor leaders briefing guide. July 1967. [1]+12 p. il. oblong 48° ([Labor Liaison Office, Office of Secretary of Army, Office of Civil Defense.])

Student manual SM (series). ● Item 320-B-1 D 119.8/8:(nos.)

- 16056 2.1.1. Civil defense management textbook [with bibliographies; prepared by OCD Staff College, Battle Creek, Mich.]. [July 1967.] v+[213] p. il. 4° [For training purposes only. Issued with perforations. Supersedes SM 2.1.1, July 1966, which may be used.] †
- 16057 16.1. Shelter management textbook; [prepared by OCD Staff College, Battle Creek, Mich.]. July 1967. vi+127 p. 4° [Issued with perforations. Supersedes SM 16.1, Guide for community fallout shelter management, July 1963.] †

Technical report TR (series). † ● Item 320-B-2 D 119.9:(nos.)

- 16058 41. Fallout protected schools; [prepared by McGaughan and Johnson, Architects, Washington, D.C.], May 1967. cover title, 16 p. il. 4° [Supersedes TR-41, Jan. 1967.]
- 16059 46. Community development and civil defense; [prepared by McGaughan and Johnson, Architects, Washington, D.C.], June 1967. cover title, 36 p. il. oblong 8° [Text on p. of cover.]
- 16060 47. National fallout shelter design competition: Community center, awards. [July 1967.] 70 p. il. oblong 8° [Project of Office of Civil Defense conducted by American Institute of Architects.]

## CIVIL RIGHTS COMMISSION Washington, D.C. 20425

- 16061 Equal opportunity in federally assisted agricultural programs in Georgia; by Georgia State Advisory Committee to United States Commission on Civil Rights. Aug. 1967. vii+45 p. 4° † ● Item 288-A  
L.C. card 67-62664 CR 1.2: Ag8

✦For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## CIVIL SERVICE COMMISSION

Washington, D.C. 20415

- 16062 ADP Management Training Center, 1967-68. [1967.] iii+21 p. (Bureau of Training.) † ● Item 295 CS 1.2: Ad7/967-68
- 16063 Agricultural commodity grader (meat), \$5,331 a year (grade GS-5), apply to Interagency Board of Civil Service Examiners for Washington, D.C., 1900 E Street, NW., Washington, D.C. 20415, announcement WA-7-41. Oct. 2, 1967. 4 p. 4° [Suspension date, May 15, 1968.] † ● Item 292 CS 1.26/4: 967/WA-7-41
- 16064 Air traffic control specialist, center, tower, station, grade GS-6, \$5,867 a yr., applications continuously accepted [at] Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 1900 E Street, NW., Washington, D.C. 20415, announcement WA-7-39 (local). Sept. 19, 1967. 8 p. il. † ● Item 292. CS 1.26/4: 967/WA-7-39
- 16065 Amendment to announcement 286 B, public health nutritionist (GS-9 to GS-15). Oct. 3, 1967. 1 p. 4° (Interagency Board of Civil Service Examiners for Washington, D.C.) † CS 1.26: 962/286B/amdt.-2
- 16066 Amendment to announcement 318, Hearing examiner. Sept. 19, 1967. 1 p. oblong 24° † CS 1.26: 964/318/rev.-3/amdt.
- 16067 Amendment to announcement 412 [auditor, accountant, internal revenue agent], Oct. 10, 1967. 1 p. oblong 24° † CS 1.26: 967/412/amdt.
- 16068 Announcement for mid-level positions, GS-9 \$7,696, GS-11 \$9,221, GS-12 \$10,927, in administrative staff and technical services, announcement 413. Oct. 10, 1967. 8 p. 4° [Open until further notices.] † ● Item 292 CS 1.26: 967/413
- 16069 Begin your professional career, auditor, accountant, internal revenue agent, starting salaries GS-5 \$6,387, GS-7 \$7,303 in Federal departments and agencies throughout the country, announcement 412, Sept. 5, 1967. 4 p. 4° † ● Item 292 CS 1.26: 967/412
- 16070 Careers in Government, Federal service entrance examination, including management internships, [announcement 10]. [Sept. 1, 1967.] 8 p. il. 4° † ● Item 292 CS 1.26: 967/410
- 16071 Careers in psychology, research psychologist, specialized fields, developmental psychology, engineering psychology, experimental and physiological psychology, personality psychology, personnel measurement and evaluation, social psychology, general psychology, salaries, grades GS-9, \$7,696 (through) GS-15, \$17,550, apply to Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 1900 E Street NW., Washington, D.C. 20415, supplement to announcement 356B. Revised Sept. 1967. [1967.] 6 p. 4° † ● Item 292 CS 1.26: 965/356B/supp.-3/rev.
- 16072 Current Federal examination announcements, AN 2279, supp. A to issue 179, Sept.-Oct. 1967. [1967.] 1 p. oblong 48° † ● Item 292 CS 1.28: 2279/179/supp.A
- 16073 — AN 2279, supp. B to issue 179, Sept.-Oct. 1967. [1967.] 1 p. oblong 48° † ● Item 292 CS 1.28: 2279/179/supp.B
- 16074 Discontinuance notice to announcement 188, accountant and auditor (GS-5 and GS-7). Sept. 1, 1967. 1 p. oblong 48° † CS 1.26: 959/188/rev.-7/notice
- 16075 Discontinuance notice to announcement 329 B, patent examiner (grades 9-13). Oct. 2, 1967. 1 p. oblong 48° (Interagency Board of U.S. Civil Service Examiners.) † CS 1.26: 964/329B/notice
- 16076 Discontinuance notice to announcement 377B, Agricultural commodity grader (meat), grade 5. Sept. 12, 1967. 1 p. oblong 48° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) [Effective Sept. 19, 1967.] † CS 1.26: 965/377B/notice

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# NOVEMBER 1967

- 16077 Discontinuance notice to examinations for 202B-Pharmacologists, GS-7, to 15,203B-Biological research assistants, GS-5, 204B-Biologists, microbiologists, physiologists, GS-7 to 15,285B-Fishery biologist and wildlife biologist, GS-5 to 15,370B-Microbiologist, GS-7 to 14. Sept. 19, 1967. 1 p. oblong 48° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) [Amends issue 179 of AN 2279.] †  
CS 1.26:959/202B/notice
- 16078 Forester, grades GS 5-7, applications continuously accepted by Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 1900 E Street, NW., Washington, D.C. 20415, announcement WA-7-43. Oct. 17, 1967. 4 p. il. 4° † ● Item 292  
CS 1.26/4:967/WA-7-43
- 16079 Handbook of occupational groups and series of classes established under Federal position-classification plan. July 1958, reprinted Apr. 1967. [187] p. (Bureau of Policies and Standards, Standards Division.) [Includes all changes made in transmittal sheets 1 through 50. Issued in looseleaf form.] \* Paper, \$4.50 (including revised pages as issued); \$1.00 additional for foreign mailing. ● Item 296  
L.C. card 50-61315 CS 1.44:958/rep.-2
- 16080 Office assistant, examination to fill clerical and office machine operator positions in Washington, D.C. area, apply to Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 1900 E Street, NW., Washington, D.C. 20415, announcement WA-7-40. Sept. 26, 1967. 4 p. 4° [Open until further notice.] † ● Item 292  
CS 1.26/4:967/WA-7-40
- Pamphlet.
- 16081 33-18. Pay structure of Federal civil service, June 30, 1966; [prepared by] Statistics Section, [Bureau of Management Services]. [June 1967.] cover title, 36 p. il. 4° [Text on p. 2-4 of cover.] †  
L.C. card 48-46254 CS 1.48:33-18
- 16082 Places where civil service examinations are held, AN 2300, Jan. 1967. [1966.] [2] p. 4° †  
CS 1.28:2300/28
- 16083 Second look, progress report on Federal employment of mentally retarded. June 1967. [18] p. narrow 8° † ● Item 295  
L.C. card 67-62749 CS 1.2:M 52/967

## COAST AND GEODETIC SURVEY, Commerce Dept. Washington, D.C. 20230

- 16084 Coast and Geodetic Survey catalog of aeronautical charts and related publications. Sept. 1967. [2] p. oblong f°, folded into narrow 8° size. †  
C 4.50:Ae8/967-3
- 16085 Pathfinders from the stars [new scientific documentary motion picture film covering history and development of methods for determining geographic position, announcement]. [1967.] [20] p. il. narrow 8° † ● Item 192  
C 4.2:P 27
- 16086 Tidal current tables, Atlantic Coast of North America, 1968. [1967.] 200 p. il. 6 pl. [Includes list of publications relating to tides and currents.] † Paper, \$2.00. ● Item 190.  
L.C. card 22-26822 C 4.22:968
- 16087 — Pacific Coast of North America and Asia, 1968. [1967.] 254 p. il. [Includes list of publications relating to tides and currents.] † Paper, \$2.00. ● Item 191  
C 4.23:968

## COAST GUARD, Transportation Dept. Washington, D.C. 20591

- 16088 Cadet profile, United States Coast Guard Academy, 1967-68. [1967.] 8 p. il. narrow large 8° [Based on data for class of 1971. Prepared by Director of Admissions, for use of secondary school guidance counselors.] †  
● Item 982-F-1 TD 5.15:967-68

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 17

# GOVERNMENT PUBLICATIONS

- 16089 Light list: v. 3, Pacific Coast and Pacific Islands, 11th, 12th, 13th, 14th, and 17th Coast Guard districts, Aug. 26, 1967 (including no. 34 of 1967). 1967. xxii+291+15 p. il. map. 4° (CG-162.) [Publication contains list of lights, fog signals, buoys, daybeacons, lightships, radiobeacons, and loran stations. Edge index and how to use on p. 4 of cover. Some illustrations are colored.] \* Paper, \$2.00. • Item 940  
L.C. card 14-30372 TD 5.9: v.3/967

## COASTAL PLAINS REGIONAL COMMISSION 2001 Wisconsin Ave., N.W., Washington, D.C. 20235

NOTE.—The Coastal Plains Regional Commission has been established by the Secretary of Commerce under authority of Public law 89-136, approved August 26, 1965.

- 16090 Remarks by J. Russell Tuten, Federal Cochairman, Coastal Plains Regional Commission, to members of Division of Agricultural Economics of University of Georgia, Georgia Experiment Station, Jekyll Island, Ga., Sept. 14, 1967. [1967.] 8 p. 4° † Y 3.C 63/2: 9T 88

## COMMERCE DEPARTMENT Washington, D.C. 20230

NOTE.—Requests to the Commerce Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 16091 Address by Acting Assistant Secretary of Commerce for Science and Technology, John F. Kincaid, prepared for delivery to Society of Cosmetic Chemists, Chicago, Ill., Sept. 22, 1967. 1967. 14 p. 4° (Comm-DC-55472.)  
† C 1.18: K 57
- 16092 Address by Secretary of Commerce Alexander B. Trowbridge prepared for delivery at annual meeting of Rocky Mountain Oil and Gas Association, Denver, Colo., Sept. 29, 1967. [1967.] 16 p. 4° † C 1.18: T 75/32
- 16093 Address by Secretary of Commerce, Alexander B. Trowbridge, prepared for delivery at annual meeting of West Virginia Manufacturing Association, White Sulphur Springs, W. Va., Oct. 6, 1967. 1967. 15 p. 4° (News; USCOMM-DC-34211.) † C 1.18: T 75/33
- 16094 Address by Secretary of Commerce Alexander B. Trowbridge prepared for delivery before 33d annual meeting of Southern Governors' Conference, Asheville, N.C., Sept. 11, 1967. 1967. 16 p. 4° † C 1.18: T 75/29
- 16095 Address by Secretary of Commerce Alexander B. Trowbridge prepared for delivery to Patents Committee of National Association of Manufacturers, New York, N.Y., Sept. 8, 1967. 1967. 11 p. 4° (Comm-DC-34137.) †  
C 1.18: T 75/28
- 16096 Address by Secretary of Commerce Alexander B. Trowbridge prepared for Key Issues Forum, Philadelphia, Sept. 11, 1967. 1967. 15 p. 4° (Comm-DC-34143.) † C 1.18: T 75/30
- 16097 Boulder Laboratories, Department of Commerce, [National Bureau of Standards, Environmental Science Services Administration]. [1967.]  
[4] p. il. oblong 24° † C 1.2: B 66
- 16098 Foreign trade's role in U.S. economy, address by Charles F. Boehm, Director, Office of Field Services, Department of Commerce, prepared for delivery at presentation of Presidential E award for excellence in exporting to Motorola Semiconductor Products, Inc., Phoenix, Ariz., Sept. 8, 1967. 1967. 7 p. 4° (USCOMM-DC-7059.) † C 1.18: B 63/3
- 16099 National and regional export expansion councils, directory, 1967-69. [1967.]  
cover title, 74 p. 4° [Text on p. 2 of cover.] † • Item 128-B  
C 1.42/3: D 62/967-69

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Overseas business reports OBR (series). [Issued irregularly.] \* Paper, \$13.00 a yr., \$5.00 additional for foreign mailing; single copy, 15c. (1-3 yr. subs.). • Item 231-B C 1.50; (nos.)

- 16100 67-46. Foreign trade regulations of Colombia; prepared by David S. McCracken. July 1967. 10 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 66-2.]
- 16101 67-48. Foreign trade regulations of Ecuador; prepared by David S. McCracken. July 1967. 7 p. 4° (Bureau of International Commerce.) [Supersedes OBR 66-43.]
- 16102 67-49. Gas, characteristics and distribution, market for gas equipment in Western Europe [with bibliography]; prepared by C. B. Pitcher. Aug. 1967. 17 p. il. 4° (Business and Defense Services Administration.) [Supersedes OBR 65-28.]
- 16103 67-51. Basic data on economy of Surinam [with bibliography]; prepared by Franklin J. Vargo. Aug. 1967. 12 p. il. 4° (Bureau of International Commerce.)
- 16104 67-52. Selling in Canada [with bibliography]; prepared by Xavier W. Eilers and Benjamin J. Stein. Aug. 1967. 13 p. 4° (Bureau of International Commerce.)
- 16105 67-53. Market information on electronic products in Australia; prepared by G. M. Russell. Aug. 1967. 12 p. 4° (Business and Defense Services Administration.)
- 16106 67-55. Foreign trade regulations of Republic of Korea; prepared by Lois J. DeNauw. July 1967. 9 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 64-24.]
- 16107 67-57. Basic data on economy of Italy [with bibliography]; prepared by Alan O. Maurer. September 1967. 16 p. il. 4° (Bureau of International Commerce.) [Supersedes OBR 62-51.]
- 16108 67-58. Trade of United States with Communist areas in Eastern Europe and Asia, 1964-66; [prepared by International Trade Analysis Division, Office of International Regional Economics.] Sept. 1967. 16 p. 4° (Bureau of International Commerce.) [Issued with perforations.]
- 16109 Remarks by Secretary of Commerce Alexander B. Trowbridge prepared for delivery at meeting of United States Travel Service overseas regional directors and USTS-State liaison officers, Sept. 20, 1967. [1967.] 5 p. 4° (COMM-DC-34168.) † C 1.18; T 75/31
- 16110 U.S. Department of Commerce telephone directory. Sept. 1967. cover title, xii+128+[4] p. 4° [Text on p. 2-4 of cover. Includes edge index and instructions for use.] \* Paper, \$1.00. C 1.37; 967-2
- 16111 War on hunger, export potential for U.S. agribusiness, remarks by Stanley Nehmer, Deputy Assistant Secretary of Commerce for Resources, prepared for delivery at Convocation on World Hunger of National Industrial Conference Board, New York, N.Y., Sept. 13, 1967. 1967. 17 p. 4° † C 1.18; N 31/3

COMMODITY EXCHANGE AUTHORITY, Agriculture Dept.  
Washington, D.C. 20250

- 16112 Trading in corn futures, Sept. 1966-Mar. 1967. Aug. 1967. [1]+22 p. 4° † A 85.2; C 81/3/966-67

CONGRESS

- 16113 Congressional record, proceedings and debates of 89th Congress, 2d session, v. 112, pt. 3, Feb. 10-26, 1966. [Permanent edition.] 1966. [1]+2817-4180 p. 4° \* Cloth, \$4.25. • Item 993 L.C. card 12-36438 X.89/2:112/pt.3
- 16114 — v. 112, pt. 5, Mar. 10-28, 1966. [Permanent edition.] 1966. [1]+5495-6872 p. 4° \* Cloth, \$4.50. • Item 993 L.C. card 12-36438 X.89/2:112/pt.5
- 16115 — v. 112, pt. 6, Bar. 29-Apr. 18, 1966. [Permanent edition.] 1966. [1]+6873-8284 p. 4° \* Cloth, \$4.50. • Item 993 L.C. card 12-36438 X.89/2:112/pt.6
- 16116 — v. 112, pt. 7, Apr. 19-May 2, 1966. [Permanent edition.] 1966. [1]+8285-9510 p. 4° \* Cloth, \$4.00. • Item 993 L.C. card 12-36438 X.89/2:112/pt.7

☐For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

•Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

- 16117 Congressional record, proceedings and debates of 89th Congress, 2d session, v. 112, pt. 8, May 3-18, 1966. [Permanent edition.] 1966. [1]+9511-10980 p. 4° \* Cloth, \$5.00. ● Item 993  
L.C. card 12-36438 X.89/2:112/pt.8
- 16118 — v. 112, pt. 11, June 22-July 11, 1966. [Permanent edition.] 1966. [1]+13843-15188 p. 4° \* Cloth, \$4.25. ● Item 993  
L.C. card 12-36438 X.89/2:112/pt.11

NOTE.—In the permanent bound edition, the paging differs from that of the daily numbers, the text being revised, rearranged, and printed without break. Extraneous matter appearing in the Appendix is omitted from the permanent form of the Congressional record.

## Congressional serial set

NOTE.—During each session of Congress the House and Senate documents and reports are accumulated into bound volumes comprising the Congressional serial set. No catalog entry is made for the volumes of the Serial set since the documents and reports contained therein have been previously listed in the Monthly catalog.

The following bound volumes were sent to depository libraries during the period of this catalog:

- 16119 House documents:  
nos. 352-353, 384, 397, 472, 487, 89th Cong., 2d sess., Audits of Government corporations, etc. [Serial 12726]. ● Item 995-G  
no. 139, 90th Cong., 1st sess., Memorial addresses on Christian Herter [Serial 12768-2]. ● Item 995-G
- 16120 Senate document:  
no. 19, 90th Cong., 1st sess., Mineral and water resources of Missouri [Serial 12759-2]. ● Item 995-G
- 16121 Senate reports:  
nos. 1103, 1153, 1348, 1379, 89th Cong., 2d sess., Reports of Committee on Government Operations [Serial 12712-4]. ● Item 1007-A

## Laws

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

Private laws, 90th Congress. † House or Senate Document Rooms, Capitol.

- 16122 87. S. 906, act for relief of Luis Tapia Davila. Approved Sept. 17, 1967. 1 p.  
16123 88. S. 1448, act for relief of Roy A. Parker. Approved Sept. 17, 1967. 1 p.  
16124 89. S. 163, act for relief of Charles M. Bickart. Approved Sept. 22, 1967. 1 p.  
16125 90. S. 653, act for relief of Robert C. Crisp. Approved Sept. 22, 1967. 1 p.  
16126 91. S. 636, act for relief of Mrs. Chin Shee Shin. Approved Sept. 26, 1967. 1 p.  
16127 92. S. 477, act for relief of widow of Albert M. Pepoon. Approved Sept. 27, 1967. 1 p.

Public laws, 90th Congress. ● Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C. 20402, at a subscription price of \$12.00 per session, \$2.00 additional foreign mailing; single copies vary in price.

- 16128 72. S. 1111, act to authorize Secretary of Interior to construct, operate, and maintain San Felipe division, Central Valley project, Calif., and for other purposes. [Approved Aug. 27, 1967.] 2 p. \* Paper, 5c.
- 16129 73. H.R. 1282, act to provide for withdrawal of wine from bonded wine cellars without payment of tax when rendered unfit for beverage use, and for other purposes. [Approved Aug. 29, 1967.] 2 p. \* Paper, 5c.
- 16130 74. H.R. 7362, act to authorize Secretary of Interior to acquire certain properties within Colonial National Historical Park, in Yorktown, Va., and for other purposes. Approved Aug. 29, 1967. 1 p. \* Paper, 5c.
- 16131 75. H.J. Res. 804, joint resolution making continuing appropriations for fiscal year 1968, and for other purposes. Approved Aug. 29, 1967. 1 p. \* Paper, 5c.
- 16132 76. H.R. 2531, to provide for disposition of unclaimed and unpaid share of Loyal Creek judgment fund, and to provide for disposition of estates of intestate members of Creek Nation of Oklahoma or estates of members of Creek Nation of Oklahoma dying without heirs. Approved Aug. 29, 1967. 1 p. \* Paper, 5c.
- 16133 77. S. 16, act to amend title 38 of United States Code in order to increase rates of pension payable to certain veterans and their widows, to provide additional readjustment assistance for veterans of services after Jan. 31, 1955, and for other purposes. [Approved Aug. 31, 1967.] 14 p. \* Paper, 10c.
- 16134 78. H.R. 6056, act to amend Internal Revenue Code of 1954 to provide rules relating to deduction for personal exemptions for children of parents who are divorced or separated. [Approved Aug. 31, 1967.] 2 p. \* Paper, 5c.
- 16135 79. S. 281, act to increase amount of real and personal property which may be held by American Academy in Rome. Approved Aug. 31, 1967. 1 p. \* Paper, 5c.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

## NOVEMBER 1967

- 16136 80. H.R. 10566, act to provide for disposition of funds appropriated to pay judgments in favor of Sac and Fox Indians, and for other purposes. Approved Aug. 31, 1967. 1 p. \* Paper, 5c.
- 16137 81. H.R. 158, act to amend sec. 209 of Merchant marine act, 1936, so as to require future authorization of funds for certain programs of Maritime Administration. Approved Sept. 5, 1967. 1 p. \* Paper, 5c.
- 16138 92. S. 1465, act to provide for holding terms of district court for eastern division of northern district of Mississippi in Ackerman, Miss. Approved Sept. 27, 1967. 1 p. \* Paper, 5c.
- 16139 94. S. 1165, act to provide for disposition of judgment funds now on deposit to credit of Minnesota Chippewa Tribe of Indians on behalf of Mississippi Bands and Pillager and Lake Winnibigoshish bands of Chippewa Indians. Approved Sept. 27, 1967. 1 p. \* Paper, 5c.
- 16140 95. S. 1657, act to extend for 1 year authority of Secretary of Agriculture to make indemnity payments to dairy farmers who are directed to remove their milk from commercial markets because it contains residues of chemicals registered and approved for use by Federal Government. Approved Sept. 28, 1967. 1 p. \* Paper, 5c.
- 16141 96. H.R. 10738, act making appropriations for Department of Defense for fiscal year 1968, and for other purposes. [Approved Sept. 29, 1967.] 18 p. \* Paper, 10c.
- 16142 97. H.R. 13026, act to extend through Mar. 1968 1st general enrollment period under pt. B of title 18 of Social security act (relating to supplementary medical insurance benefits for the aged), and for other purposes. Approved Sept. 30, 1967. 2 p. \* Paper, 5c.
- 16143 98. H.R. 472, act to authorize Secretary of Agriculture to purchase certain land from Texas Southmost College, Brownsville, Tex. Approved Oct. 2, 1967. 1 p. \* Paper, 5c.
- 16144 99. H.R. 12257, act to amend Vocational rehabilitation act to extend and expand authorization of grants to States for rehabilitation services, to authorize assistance in establishment and operation of National Center for Deaf-Blind Youth and Adults, and to provide assistance for migrants. [Approved Oct. 3, 1967.] 3 p. \* Paper, 5c.
- 16145 100. S. 188, act creating a commission to be known as Commission on Obscenity and Pornography. [Approved Oct. 3, 1967.] 3 p. \* Paper, 5c.

### ECONOMIC JOINT COMMITTEE Washington, D.C. 20510

- 16146 Future of U.S. foreign trade policy, hearings before Subcommittee on Foreign Economic Policy, 90th Congress, 1st session. ● Item 1000  
L.C. card 67-62362 Y 4.Ec7: F 76/4/v. (nos.)  
v. 1. July 11-20, 1967. 1967. iv+1-414 p. il. \* Paper, \$1.00.  
v. 2. Submitted statements. 1967. iii+415-478 p. \* Paper, 30c.
- 16147 Future of U.S. foreign trade policy, report of Subcommittee on Foreign Economic Policy with supplementary statement and individual views. 1967. v+25 p. (Joint committee print, 90th Congress, 1st session.) \* Paper, 15c. ● Item 1000  
L.C. card 67-62667 Y 4.Ec7: F 76/6
- 16148 Issues and objections of U.S. foreign trade policy, compendium of statements submitted to Subcommittee on Foreign Economic Policy; Sept. 1967. 1967. vii+262 p. il. (Joint committee print, 90th Congress, 1st session.) \* Paper, 65c. ● Item 1000  
L.C. card 67-62711 Y 4.Ec7: F 76/5
- 16149 Revenue sharing and its alternatives, what future for fiscal federalism, hearings before Subcommittee on Fiscal Policy, 90th Congress, 1st session, July 31-Aug. 3, 1967. 1967. iii+194 p. \* Paper, 50c. ● Item 1000  
L.C. card 67-62600 Y 4.Ec7: R 32/3/967

### HOUSE OF REPRESENTATIVES Washington, D.C. 20511

#### *House documents*

NOTE.—All House documents, entries for which are followed by a †, may be obtained from the House Document Room or from the issuing office.

#### House documents, 89th Congress.

- 16150 497. Ceremonies and reenactment of 100th anniversary of 2d inauguration of Abraham Lincoln, 1865-1965, on east front of Capitol of United States, Mar. 4, 1965. 1967. xvii+54 p. il. 4° [Title on cover is: Abraham Lincoln commemoration ceremony, 100th anniversary of his second inauguration, east front of Capitol, 1865-1965. Pocket containing pamphlet of commemoration ceremony, [4]+24 p. il., pasted on inside of back cover.] \* Cloth, \$3.00. ● Item 996

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## House documents, 90th Congress.

- 16151 4, pt. 2. Annual report of chief of engineers, Army, on civil work activities [pertaining to rivers and harbors, flood control, beach erosion control, and related purposes], fiscal year 1966: v. 2, [Specific project data]. 1966 [published 1967]. iii+1845 p. il. \* (Available in departmental edition, \$5.00, D 103.1: 966/v.2 and sent to depositories in that form. See Entry no. 16518.)
- 16152 139. Memorial addresses and other tributes in Congress of United States on life and contributions of Christian Archibald Herter, 90th Congress, 1st session, 1967. vii+1+64 p. 1 por. (Sent to depositories in serial set binding.) L.C. card 67-62701
- 16153 147. Vietnam and Asian continent maps, including indexes and economic and topographic maps. July 17, 1967. [2] p. f<sup>o</sup>, folded into 8° size. [Contains copyright material. Maps are colored.] \* Paper, 15c. ● Item 996
- 16154 152. Taxes, message from President of United States transmitting recommendations for taxes. Aug. 3, 1967. 8 p. \* Paper, 5c. ● Item 996
- 16155 156. Federal employees' insurance, message from President of United States returning without approval bill (H.R. 11089). Aug. 14, 1967. 4 p. † ● Item 996
- 16156 158. Election of District of Columbia school board, communication from President of United States transmitting recommendations for legislation to permit popular election of school board in District of Columbia. Aug. 16, 1967. 3 p. † ● Item 996
- 16157 159. Trust Territory of Pacific Islands, communication from President of United States transmitting joint resolution regarding status of Trust Territory of Pacific Islands. Aug. 21, 1967. 10 p. † ● Item 996
- 16158 161. Report by General Accounting Office for improving Government operations, fiscal year 1966, letter from Comptroller General transmitting compilation of findings and recommendations; Aug. 23, 1967. 1967. xix+164 p. 4° † ● Item 996
- 16159 162. 6th semiannual report of Federal agency activity, communication from President of United States transmitting 6th semiannual report to Congress, pursuant to provisions of Public Law 88-451; Aug. 28, 1967. 1967. iv+7 p. [Relates to assistance to Alaska to recover from 1964 earthquake.] † ● Item 996
- 16160 164. ILO convention no. 124 and ILO recommendation no. 125, letter from Assistant Secretary for Congressional Relations, Department of State, transmitting text of ILO convention no. 124, and text of recommendation no. 125, adopted by International Labor Conference at 49th session, at Geneva, June 23, 1965; Sept. 14, 1967. 1967. viii+8 p. † ● Item 996
- 16161 167. Proposed State firearms control act of 1967, communication from President of United States transmitting recommendation urging action on proposed State firearms control act of 1967. Sept. 13, 1967. 3 p. † ● Item 996
- 16162 170. St. Lawrence Seaway Development Corporation, message from President of United States transmitting annual report of St. Lawrence Seaway Development Corporation for year ending Dec. 31, 1966; Sept. 25, 1967. 1967. v+[2]+16 p. † ● Item 996
- 16163 171. Peace in Asia, message from President of United States transmitting message on importance of peace in Asia. Sept. 26, 1967. 5 p. † ● Item 996

## House reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on private bills, 90th Congress. † House Document Room, Capitol. ● Item 1008-B

- 16164 418. Mauritz A. Sterner. Report from Committee on Judiciary to accompany H.R. 3865. June 27, 1967. 12 p. il.
- 16165 573. Authorizing Secretary of Interior to sell reserved phosphate interests of United States in lands located in Florida to record owners of surface thereof. Report from Committee on Interior and Insular Affairs to accompany H.R. 9085. Aug. 21, 1967. 4 p.
- 16166 579. Martha Blankenship. Report from Committee on Judiciary to accompany S. 117. Aug. 22, 1967. 4 p.
- 16167 580. CWO Charles M. Bleckart. Report from Committee on Judiciary to accompany S. 163. Aug. 22, 1967. 4 p.
- 16168 581. Widow of Albert M. Pepon. Report from Committee on Judiciary to accompany S. 477. Aug. 22, 1967. 4 p.
- 16169 582. Capt. Robert C. Crisp. Report from Committee on Judiciary to accompany S. 653. Aug. 22, 1967. 5 p.
- 16170 583. Virgil Postay. Report from Committee on Judiciary to accompany H.R. 1884. Aug. 22, 1967. 4 p.
- 16171 584. Employees of General Services Administration. Report from Committee on Judiciary to accompany H.R. 1963. Aug. 22, 1967. 13 p.
- 16172 585. D. M. Dew & Sons, Inc., and Dewey Campbell. Report from Committee on Judiciary to accompany H.R. 3498. Aug. 22, 1967. 4 p.
- 16173 586. James E. Denman. Report from Committee on Judiciary to accompany H.R. 5199. Aug. 22, 1967. 2 p.
- 16174 587. Mrs. Sophie Michalowska. Report from Committee on Judiciary to accompany H.R. 5233. Aug. 22, 1967. 3 p.
- 16175 588. 1st Lt. Allan L. Schooler. Report from Committee on Judiciary to accompany H.R. 6325. Aug. 22, 1967. 4 p.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16176 589. Willard Herndon Rusk. Report from Committee on Judiciary to accompany H.R. 8088. Aug. 22, 1967. 2 p.
- 16177 590. Arthur Anderson. Report from Committee on Judiciary to accompany H.R. 10655. Aug. 22, 1967. 4 p.
- 16178 591. Reference of bill (H.R. 1734) entitled bill for relief of Frances von Wedel to chief commissioner of Court of Claims pursuant to sec. 1492 and 2509 of title 28, United States Code. Report from Committee on Judiciary to accompany H. Res. 508. Aug. 2, 1967. 4 p.
- 16179 592. Dr. Abraham Ruchwarger. Report from Committee on Judiciary to accompany H. Res. 493. Aug. 22, 1967. 9 p.
- 16180 599. Lim Ai Ran and Lim Soo Ran. Report from Committee on Judiciary to accompany H.R. 1948. Aug. 24, 1967. 6 p.
- 16181 600. Angelique Kousoulas. Report from Committee on Judiciary to accompany H.R. 1960. Aug. 24, 1967. 7 p.
- 16182 601. Yim Mei Lam. Report from Committee on Judiciary to accompany H.R. 3430. Aug. 24, 1967. 7 p.
- 16183 618. Yoo Young Hul. Report from Committee on Judiciary to accompany H.R. 2464. Aug. 28, 1967. 5 p. [H.R. 2464, as amended by the committee, provides for relief of Yoo Young Hul and her daughter Ok Young.]
- 16184 619. Yong Ok Espantoso. Report from Committee on Judiciary to accompany H.R. 2978. Aug. 28, 1967. 4 p.
- 16185 620. Giuseppe De Stefano. Report from Committee on Judiciary to accompany H.R. 3734. Aug. 28, 1967. 4 p.
- 16186 661. Dr. Ray F. McMillan. Report from Committee on Judiciary to accompany H.R. 2283. Sept. 25, 1967. 7 p.
- 16187 664. Mi Soon Oh. Report from Committee on Judiciary to accompany S. 43. Sept. 26, 1967. 11 p.
- 16188 665. Dr. Pablo E. Tabio. Report from Committee on Judiciary to accompany S. 62. Sept. 26, 1967. 7 p.
- 16189 666. Dr. Enrique Alberto Rojas-Villa. Report from Committee on Judiciary to accompany S. 63. Sept. 26, 1967. 5 p.
- 16190 667. Dr. Luis Osvaldo Martinez-Farinas. Report from Committee on Judiciary to accompany S. 64. Sept. 26, 1967. 6 p.
- 16191 668. Dr. Armando Perez Simon. Report from Committee on Judiciary to accompany S. 221. Sept. 26, 1967. 4 p.
- 16192 669. Dr. Julio Alejandro Solano. Report from Committee on Judiciary to accompany S. 440. Sept. 26, 1967. 4 p.
- 16193 670. Rosemarie Gauch Netb. Report from Committee on Judiciary to accompany S. 445. Sept. 26, 1967. 4 p.
- 16194 671. Dr. Angel Reaud, also known as Angel Reaud Ramos Izquierdo. Report from Committee on Judiciary to accompany S. 503. Sept. 26, 1967. 3 p.
- 16195 672. Sabiene Elizabeth DeVore. Report from Committee on Judiciary to accompany S. 733. Sept. 26, 1967. 6 p.
- 16196 673. Rumiko Samauski. Report from Committee on Judiciary to accompany S. 741. Sept. 26, 1967. 8 p.
- 16197 674. Dr. Menelio Segundo Diaz Padron. Report from Committee on Judiciary to accompany S. 808. Sept. 26, 1967. 5 p.
- 16198 675. Dr. Ricardo Vallejo Samala. Report from Committee on Judiciary to accompany H.R. 2275. Sept. 26, 1967. 5 p.
- 16199 676. Vistacion Enrique Maypa. Report from Committee on Judiciary to accompany H.R. 4386. Sept. 26, 1967. 8 p.
- 16200 677. Mrs. Antonia Subias Val. Report from Committee on Judiciary to accompany H.R. 4985. Sept. 26, 1967. 4 p.
- 16201 678. Panagiotis Basil Paulus. Report from Committee on Judiciary to accompany H.R. 5575. Sept. 26, 1967. 5 p. [H.R. 5575, as amended by the Committee, provides for relief of Panagiotis Paulus.]
- 16202 679. Chrisanthe Savas Karatapanis. Report from Committee on Judiciary to accompany H.R. 6326. Sept. 26, 1967. 5 p.
- 16203 680. Valentina Sidorova Parkevich. Report from Committee on Judiciary to accompany S. 811. Sept. 26, 1967. 16 p.
- 16204 681. Dr. Julio Domingo Hernandez. Report from Committee on Judiciary to accompany S. 821. Sept. 26, 1967. 5 p.
- 16205 682. Dr. Cesar Abad Lugones. Report from Committee on Judiciary to accompany S. 863. Sept. 26, 1967. 5 p.
- 16206 683. Mitsuo Blomstrom. Report from Committee on Judiciary to accompany S. 975. Sept. 26, 1967. 6 p.
- 16207 684. Antonio Luis Navarro. Report from Committee on Judiciary to accompany S. 1021. Sept. 26, 1967. 8 p.
- 16208 685. Dr. G. F. Valdes-Faull. Report from Committee on Judiciary to accompany S. 1105. Sept. 26, 1967. 6 p.
- 16209 686. Dr. David Castaneda. Report from Committee on Judiciary to accompany S. 1106. Sept. 26, 1967. 4 p.
- 16210 687. Dr. Felix C. Caballol and wife, Lucia J. Caballol. Report from Committee on Judiciary to accompany S. 1108. Sept. 26, 1967. 4 p. [S. 1108, as amended by committee, deletes name of beneficiary's wife.]
- 16211 688. Dr. Ramon E. Oyarzun. Report from Committee on Judiciary to accompany S. 1109. Sept. 26, 1967. 4 p.
- 16212 689. Dr. Manuel Alpendre Seisdedos. Report from Committee on Judiciary to accompany S. 1110. Sept. 26, 1967. 4 p.
- 16213 690. Dr. Lucio Areseno Travieso y Perez. Report from Committee on Judiciary to accompany S. 1197. Sept. 26, 1967. 5 p.
- 16214 691. Dr. Gonzalo G. Rodriguez. Report from Committee on Judiciary to accompany S. 1269. Sept. 26, 1967. 4 p.
- 16215 692. Dr. Francisco Montes. Report from Committee on Judiciary to accompany S. 1279. Sept. 26, 1967. 4 p.

For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

•Sent to Depository Libraries

Page 23



# GOVERNMENT PUBLICATIONS

## House reports on private bills, 90th Congress—Continued

- 16216 693. Dr. Alfredo Pereira. Report from Committee on Judiciary to accompany S. 1280. Sept. 26, 1967. 4 p.
- 16217 694. Lee Duk Hee. Report from Committee on Judiciary to accompany S. 1458. Sept. 26, 1967. 7 p.
- 16218 695. Dr. Hugo Gonzalez. Report from Committee on Judiciary to accompany S. 1471. Sept. 26, 1967. 4 p.
- 16219 696. Dr. Ernesto Nestor Prieto. Report from Committee on Judiciary to accompany S. 1482. Sept. 26, 1967. 5 p.
- 16220 697. Dr. Mario R. Garcinl. Report from Committee on Judiciary to accompany S. 1525. Sept. 26, 1967. 4 p.
- 16221 698. Dr. Carlos E. Garcega. Report from Committee on Judiciary to accompany S. 1557. Sept. 26, 1967. 7 p.
- 16222 699. Dr. Maria del Carmen Trabadelo de Arias. Report from Committee on Judiciary to accompany S. 1647. Sept. 26, 1967. 5 p.
- 16223 700. Dr. Antonio Martin Ruiz del Castillo. Report from Committee on Judiciary to accompany S. 1709. Sept. 26, 1967. 4 p.
- 16224 701. Dr. Ramiro de la Riva Dominguez. Report from Committee on Judiciary to accompany S. 1748. Sept. 26, 1967. 4 p.
- 16225 702. Dr. Orlando Hipolito Maytin. Report from Committee on Judiciary to accompany S. 1938. Sept. 26, 1967. 5 p.
- 16226 703. Relief of American Petrofina Co. of Texas, Delaware corporation, and James W. Harris. Report from Committee on Interior and Insular Affairs to accompany S. 1678. Sept. 26, 1967. 3 p.
- 16227 738. Incorporate Paralyzed Veterans of America. Report from Committee on District of Columbia to accompany H.R. 11131. Oct. 6, 1967. 4 p.

## House reports on public bills, 90th Congress. † House Document Room, Capitol. (No. 728 is sold by Superintendent of Documents.) ● Item 1008-A

- 16228 246. Providing for printing as House document of Southeast Asia briefing map prepared by U.S. Army Map Service. Report from Committee on House Administration to accompany H. Con. Res. 253. May 11, 1967. 1 p.
- 16229 528. Furnishing uniform and presentation of flag of United States for deceased members of National Guard and Ready Reserve. Report from Committee on Armed Services to accompany H.R. 2630. Aug. 1, 1967. 9 p.
- 16230 538. Partnership for health amendments of 1967. Report of Committee on Interstate and Foreign Commerce with minority views to accompany H.R. 6418; Aug. 3, 1967. 1967. ix+89 p.
- 16231 570. Providing for distribution of United States Code annotated or Federal Code annotated to Members of House of Representatives. Report from Committee on House Administration to accompany H. Res. 506. Aug. 21, 1967. 3 p.
- 16232 598. Training opportunities for Federal legislative employees. Report from Committee on Post Office and Civil Service to accompany H.R. 3810. Aug. 24, 1967. 13 p.
- 16233 626. Amending Small reclamation projects act of 1956, as amended. Report from Committee on Interior and Insular Affairs to accompany S. 862. Aug. 31, 1967. 8 p.
- 16234 628. Report on international control of oil pollution. Report of congressional delegation to 3d extraordinary session of Intergovernmental Maritime Consultative Organization [from Committee on Merchant Marine and Fisheries]; Sept. 11, 1967. 1967. ix+32 p.
- 16235 629. Creating new division for western district of Texas. Report from Committee on Judiciary to accompany H.R. 8338. Sept. 12, 1967. 5 p.
- 16236 630. Amending sec. 5(b) of act of Mar. 18, 1966 (Public law 89-372). Report from Committee on Judiciary to accompany S. 828. Sept. 12, 1967. 6 p.
- 16237 632. Providing for disposition of judgment funds now on deposit to credit of Minnesota Chippewa Tribe of Indians on behalf of Mississippi bands and the Pillager and Lake Winnibigoshish bands of Chippewa Indians. Report from Committee on Interior and Insular Affairs to accompany S. 1165. Sept. 12, 1967. 4 p.
- 16238 633. Providing for disposition of funds appropriated to pay judgment in favor of Iowa Tribes of Kansas and Nebraska and of Oklahoma in Indian Claims Commission docket 138, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany H.R. 2828. Sept. 12, 1967. 4 p.
- 16239 634. Conveying certain land to Squaxin Island Tribe of Indians. Report from Committee on Interior and Insular Affairs to accompany H.R. 8580. Sept. 12, 1967. 4 p.
- 16240 635. Authorizing Secretary of Interior to engage in feasibility investigations of certain water resource developments. Report from Committee on Interior and Insular Affairs to accompany H.R. 10130. Sept. 12, 1967. 12 p.
- 16241 637. Disposition of sundry papers. Report from Joint Committee on Disposition of Executive Papers. Sept. 12, 1967. 2 p.
- 16242 638. Establishing procedures to relieve domestic industries and workers injured by increased imports for low-wage areas. Report together with supplemental and separate views from Committee on Education and Labor to accompany H.R. 478. Sept. 13, 1967. 121 p.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# NOVEMBER 1967

- 16243 639. Authorizing Secretary of Interior to accept donations of land for, and to construct, administer, and maintain extension of Blue Ridge Parkway in North Carolina and Georgia, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany H.R. 1340. Sept. 13, 1967. 11 p.
- 16244 641. Inter-American Development Bank act amendment of 1967. Conference report to accompany H.R. 9547. Sept. 14, 1967. 4 p.
- 16245 642. Consideration of H.R. 6736. Report from Committee on Rules to accompany H. Res. 920. Sept. 18, 1967. 1 p.
- 16246 644. Consideration of H.R. 6430. Report from Committee on Rules to accompany H. Res. 922. Sept. 18, 1967. 1 p.
- 16247 645. Consideration of H.R. 6418. Report from Committee on Rules to accompany H. Res. 923. Sept. 18, 1967. 1 p.
- 16248 646. Reallocating part of bankruptcy filing fee. Report from Committee on Judiciary to accompany H.R. 8632. Sept. 19, 1967. 5 p.
- 16249 647. Juvenile delinquency prevention and control act of 1967. Report from Committee on Education and Labor to accompany H.R. 12120. Sept. 19, 1967. 13 p.
- 16250 648. Organizational conspiracies act of 1967. Report together with dissenting views from Committee on Un-American Activities to accompany H.R. 7025. Sept. 19, 1967. 23 p.
- 16251 649. Food stamp appropriations authorization. Conference report to accompany S. 953. Sept. 19, 1967. 2 p.
- 16252 650. Inter-American development bank act amendments of 1967. Conference report to accompany H.R. 9547. Sept. 21, 1967. 4 p.
- 16253 651. Authorizing funds for operation of Committee on Standards of Official Conduct pursuant to House resolution 418. Report from Committee on House Administration to accompany H. Res. 871. Sept. 21, 1967. 1 p.
- 16254 652. Amending sec. 1263 of title 18, United States Code, relating to interstate shipments of intoxicating liquors. Report from Committee on Judiciary to accompany H.R. 5754. Sept. 21, 1967. 6 p. [Includes views of Basil L. Whitener.]
- 16255 653. Federal meat inspection act. Report together with supplemental views and additional supplemental views from Committee on Agriculture to accompany H.R. 12144. Sept. 21, 1967. 72 p.
- 16256 654. Consideration of H.R. 478. Report from Committee on Rules to accompany H. Res. 925. Sept. 21, 1967. 1 p.
- 16257 655. Consideration of H.R. 11284. Report from Committee on Rules to accompany H. Res. 926. Sept. 21, 1967. 1 p.
- 16258 657. Permit D.C. Council to make regulations under D.C. alcoholic beverage control act. Report from Committee on District of Columbia to accompany H.R. 13025. Sept. 22, 1967. 11 p.
- 16259 658. Obstruction of criminal investigations. Report together with additional views from Committee on Judiciary to accompany S. 676. Sept. 22, 1967. 8 p.
- 16260 659. District of Columbia elected Board of Education act. Report from Committee on District of Columbia to accompany H.R. 13042. Sept. 22, 1967. 28 p.
- 16261 660. Small business act amendments of 1967. Conference report to accompany S. 1862. Sept. 25, 1967. 10 p.
- 16262 662. Disposal of Alaska communications system. Report from Committee on Armed Services to accompany S. 223. Sept. 26, 1967. 12 p.
- 16263 663. Authorizing printing of additional copies of report to Committee on Science and Astronautics entitled Applied science and technological progress. Report from Committee on House Administration to accompany H. Res. 906. Sept. 26, 1967. 1 p.
- 16264 705. Medical enrollment act of 1967. Report from Committee on Ways and Means to accompany H.R. 13026. Sept. 26, 1967. 3 p.
- 16265 706. Appalachian regional development act amendments of 1967. Conference report to accompany S. 602. Sept. 26, 1967. 16 p.
- 16266 707. Authorizing service Secretaries to initiate allotments to uniformed savings deposit program for persons missing in action or captured by enemy. Report from Committee on Armed Services to accompany H.R. 4772. Sept. 27, 1967. 9 p.
- 16267 708. Continuing appropriations, 1968. Report from Committee on Appropriations to accompany H.J. Res. 849. Sept. 27, 1967. 5 p.
- 16268 709. Adjusting legislative jurisdiction at U.S. Naval Station, Long Beach, Calif. Report from Committee on Armed Services to accompany H.R. 11767. Sept. 27, 1967. 7 p.
- 16269 710. Establishing Judge Advocate General's Corps in Navy. Report from Committee on Armed Services to accompany H.R. 12910. Sept. 27, 1967.
- 16270 711. Amending title 10, United States Code, to change method of computing retired pay of certain enlisted members of Army, Navy, Air Force, or Marine Corps. Report from Committee on Armed Services to accompany H.R. 5943. Sept. 27, 1967. 7 p.
- 16271 712. Authorizing continued loan of certain naval vessels and 2 new loans. Report from Committee on Armed Services to accompany H.R. 9796. Sept. 27, 1967. 9 p.
- 16272 713. Highway beautification programs. Report from Committee on Public Works to accompany S. 1467. Sept. 27, 1967. 13 p. [Includes minority views.]
- 16273 714. Authorizing certain additional bridges and tunnels in Maryland. Report from Committee on Public Works to accompany H.R. 11627. Sept. 27, 1967. 10 p.
- 16274 715. Facilitating computation of tobacco acreage allotments. Report from Committee on Agriculture to accompany S. 1564. Sept. 27, 1967. 5 p.
- 16275 716. Facilitate land exchanges. Report from Committee on Agriculture to accompany H.R. 10442. Sept. 27, 1967. 4 p.

☿For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## House reports on public bills, 90th Congress—Continued

- 16276 717. Land transfer to University of Maine. Report from Committee on Agriculture to accompany H.R. 11527. Sept. 27, 1967. 8 p.
- 16277 718. Acquisition of career status by temporary Government employees. Conference report to accompany S. 1320. Sept. 27, 1967. 7 p.
- 16278 719. Consideration of H.R. 159. Report from Committee on Rules to accompany H. Res. 931. Sept. 27, 1967. 1 p.
- 16279 720. Consideration of H.R. 1411. Report from Committee on Rules to accompany H. Res. 932. Sept. 27, 1967. 1 p.
- 16280 721. Consideration of S. 676. Report from Committee on Rules to accompany H. Res. 933. Sept. 27, 1967. 1 p.
- 16281 723. Amending act providing for promotion of economic and social development in Ryukyu Islands. Report from Committee on Armed Services to accompany H.R. 4903. Sept. 28, 1967. 28 p. il.
- 16282 724. Continuing appropriations, 1968. Report from Committee on Appropriations to accompany H.J. Res. 853. Sept. 28, 1967. 3 p. [Corrected print.]
- 16283 725. Increasing amounts authorized for Indian adult vocational education. Report from Committee on Interior and Insular Affairs to accompany S. 306. Oct. 2, 1967. 4 p.
- 16284 726. Military construction authorization, fiscal year 1968. Conference report to accompany H.R. 11722. Oct. 2, 1967. 50 p.
- 16285 727. Consideration of House joint resolution 853. Report from Committee on Rules to accompany H. Res. 938. Oct. 2, 1967. 1 p.
- 16286 728. Air quality act of 1967. Report of Committee on Interstate and Foreign Commerce together with additional views to accompany S. 780; Oct. 3, 1967. 1967. iii+97 p. il. \* Paper, 30c. L.C. card 67-62702
- 16287 729. Appropriations for Departments of Labor, and Health, Education, and Welfare, and related agencies, 1968. Conference report to accompany H.R. 10196. Oct. 3, 1967. 12 p.
- 16288 731. Preserving domestic gold mining industry and increasing domestic production of gold. Report from Committee on Interior and Insular Affairs to accompany H.R. 3274. Oct. 4, 1967. 9 p.
- 16289 732. Extending provisions of act of Oct. 23, 1962, relating to relief for occupants of certain unpatented mining claims. Report from Committee on Interior and Insular Affairs to accompany H.R. 10583. Oct. 4, 1967. 8 p.
- 16290 733. Internal security act of 1950 amendments. Report together with dissenting view from Committee on Un-American Activities to accompany H.R. 12601. Oct. 4, 1967. 56 p.
- 16291 735. Providing for disposition of funds to Upper and Lower Chehalis Tribes of Indians, Washington. Conference report to accompany H.R. 678. Oct. 5, 1967. 2 p.
- 16292 737. Amend sec. 11 of D.C. life insurance act. Report from Committee on District of Columbia to accompany H.R. 10213. Oct. 6, 1967. 5 p.
- 16293 739. To exempt public international organizations from District of Columbia unemployment compensation act. Report from Committee on District of Columbia to accompany H.R. 9059. Oct. 6, 1967. 7 p.
- 16294 740. Amend National Capital transportation act of 1965. Report from Committee on District of Columbia to accompany H.R. 11395. Oct. 6, 1967. 12 p.
- 16295 741. Amend statute of limitations in certain civil actions. Report from Committee on District of Columbia to accompany H.R. 6527. Oct. 6, 1967. 9 p.
- 16296 742. Amend D.C. industrial safety act. Report from Committee on District of Columbia to accompany H.R. 11638. Oct. 6, 1967. 8 p.
- 16297 743. Amendment of Commodity exchange act. Report from Committee on Agriculture to accompany H.R. 13094. Oct. 6, 1967. 27 p.
- 16298 744. Library services and construction act amendments. Report from Committee on Education and Labor to accompany H.R. 13048. Oct. 9, 1967. 7 p.
- 16299 745. Safety of Capitol buildings and grounds. Report together with minority views from Committee on Public Works to accompany H.R. 13178. Oct. 9, 1967. 27 p.
- 16300 746. Department of Agriculture and related agencies appropriation, 1968. Conference report to accompany H.R. 10509. Oct. 9, 1967. 12 p.

## Agriculture Committee, House Washington, D.C. 20515

[Committee hearings] serial, 90th Congress. † ● Item 1010

- 16301 S. Cotton storage costs, hearing before Subcommittee on Cotton, 90th Congress, 1st session, July 13, 1967. 1967. iii+27 p. Y 4.Ag 8/1 : C 82/50  
L.C. card 67-62607
- 16302 T. Amend Commodity exchange act, hearings, 90th Congress, 1st session, on H.R. 11930 and H.R. 12317, Aug. 15-Sept. 11, 1967. 1967. iii+165 p. Y 4.Ag 8/1 : C 73/5/967  
L.C. card 67-62586
- 16303 W. Miscellaneous land transfers and ragweed eradication, hearings before Subcommittee on Departmental Oversight, 90th Congress, 1st session, on H.R. 472, H.R. 547, H.R. 755, H.R. 2097, H.R. 3632, H.R. 10442, and H.R. 11527, June 8-Aug. 9, 1967. ii+52 p. Y 4.Ag 8/1 : L 22/4  
L.C. card 67-62613

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

**Appropriations Committee, House**  
Washington, D.C. 20515

- 16304 Foreign assistance and related agencies appropriations for 1968, hearings before subcommittee, 90th Congress, 1st session. † ● Item 1011  
L.C. card 67-62403 Y 4.Ap 6/1 : F 76/3/968/pt.2  
pt. 2. Economic assistance. 1967. ii+1802+xxii p. il.
- 16305 Military construction appropriations for 1968, hearings before subcommittee, 90th Congress, 1st session. † ● Item 1011  
L.C. card 67-62300 Y 4.Ap 6/1 : M 59/6/968/pt. (nos.)  
pt. 3. Department of Air Force. 1967. ii+667+vi p.  
pt. 4. Department of Army, homeowners assistance fund, DOD, housing policy, DOD, Ioran stations, Reserve Forces, revised obligation and expenditure program, Southeast Asia, testimony of Members of Congress and other interested individuals and organizations. 1967. ii+769+vi p. il.

**Armed Services Committee, House**  
Washington, D.C. 20515

[Papers], 90th Congress. † ● Item 1012 Y 4.Ar 5/2a : 967-68/ (nos.)

NOTE.—These papers consist largely of hearings. They are paged continuously for binding at the end of session of Congress under title "Hearings before Committee on Armed Services of the House of Representatives on sundry legislation affecting the naval and military establishments." Title page, contents, and index are issued for each volume.

- 16306 18. Dental care needs of military dependents, hearings before Special Subcommittee on Military Dental Care, 90th Congress, 1st session, July 25 and 26, 1967. [1967.] cover title, 4187-4430+ii p. il.  
L.C. card 67-62404
- 16307 20. Hearings before subcommittee no. 3, 90th Congress, 1st session, on S. 223, to authorize disposal of Government-owned long-lines communication facilities in Alaska, and for other purposes, Aug. 7 and 14, 1967. [1967.] ii+5021-5139+1 p. il.
- 16308 21. Subcommittee no. 1 hearing on H.R. 11767, to authorize Secretary of Navy to adjust legislative jurisdiction exercised by United States over lands comprising U.S. Naval Station, Long Beach, Calif. [1967.] p. 5141-44.
- 16309 22. Subcommittee no. 3 hearings on H.R. 4903, to amend act providing for economic and social development in Ryukyu Islands. [1967.] p. 5145-5207.
- 16310 23. Subcommittee no. 1 hearing on title 4 (to establish Navy Judge Advocate General's Corps) of H.R. 226, to amend Uniform code of military justice to broaden protections afforded to members of Armed Forces, and for other purposes. [1967.] p. 5209-40, il.
- 16311 24. Subcommittee no. 4 hearings on H.R. 4772, H.R. 5943, and H.R. 8547, Aug. 23, 1967. [1967.] p. 5241-96.
- 16312 25. Full committee consideration of H.R. 12910, H.R. 11767, H.R. 4903, S. 223, H.R. 4772, H.R. 5943, and H.R. 9796, to authorize extension of certain naval vessel loans now in existence, and for other purposes. [1967.] p. 5297-5320.
- 16313 30th report to Congress (Jan. 1-June 30, 1967) of Department of Defense in accordance with sec. 2455, title 10, U.S.C. (formerly sec. 8 of Public law 426, 82d Congress), on Defense cataloging and standardization act of 1952, report of Subcommittee for Special Investigations, 90th Congress, 1st session; Aug. 21, 1967. 1967. iii+12 p. (Committee print.) †  
L.C. card 53-60980 Y 4.Ar 5/2 : D 36/2/967

**Banking and Currency Committee, House**  
Washington, D.C. 20515

- 16314 Export-Import Bank and credit sales of defense articles, hearing, 90th Congress, 1st session, on H.R. 8649, July 17, 1967. 1967. ii+73 p. †  
● Item 1013  
L.C. card 67-62396 Y 4.B 22/1 : Ex 7/10/967-3
- 16315 National flood insurance act of 1967, hearings before Subcommittee on Housing, 90th Congress, 1st session, on H.R. 11197, Aug. 15-Sept. 21, 1967. 1967. v+253 p. il. † ● Item 1013  
L.C. card 67-62589 Y 4.B 22/1 : F 65
- 16316 Savings and loan holding company amendments of 1967, hearings before Subcommittee on Domestic Finance, 90th Congress, 1st session, on H.R. 1322, H.R. 8696, and H.R. 12025, Aug. 21 and 22, 1967. 1967. v+202 p. il. † ● Item 1013  
L.C. card 67-62602 Y 4.B 22/1 : Sa 9/2/967

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

- 16317 To amend Export-Import act of 1945, supplemental hearings, 90th Congress, 1st session, on H.R. 6649, Sept. 12 and 13, 1967. 1967. iii+84 p. †  
 ● Item 1013  
 L.C. card 67-62605 Y 4.B 22/1: Ex 7/10/967-2

## *District of Columbia Committee, House* *Washington, D.C. 20515*

- 16318 Air pollution, hearings before subcommittee no. 2, 90th Congress, 1st session, on H.R. 6981, H.R. 10017, and H.R. 12232, Aug. 10 and 16, 1967. 1967. iv+103 p. il. † ● Item 1014  
 L.C. card 67-62398 Y 4.D 63/1: Ai 7/2
- 16319 Optometry, hearing before subcommittee no. 5, 90th Congress, 1st session on H.R. 595 [and similar bills], Aug. 14-18, 1967. 1967. lv+358 p. †  
 ● Item 1014  
 L.C. card 67-62395 Y 4.D 63/1: Op 7/967
- 16320 Safety standards in employment, hearings before subcommittee no. 5, 90th Congress, 1st session, on H.R. 1264, Apr. 28 and May 4, 1967. 1967. lii+67 p. † ● Item 1014  
 L.C. card 67-62601 Y 4.D 63/1: Sa 1

## *Education and Labor Committee, House* *Washington, D.C. 20515*

- 16321 Bilingual education programs, hearings before General Subcommittee on Education, 90th Congress, 1st session, on H.R. 9840 and H.R. 10224, June 28 and 29, 1967. 1967. viii+584 p. il. † ● Item 1015  
 L.C. card 67-62588 Y 4.Ed 8/1: B 49
- 16322 Department of Defense education of dependents overseas, report by Investigating Committee of General Subcommittee on Labor; Apr. 1967. 1967. v+36 p. (Committee print, 90th Congress, 1st session.) †  
 L.C. card 67-62510 Y 4.Ed 8/1: Ed 8/29/967
- 16323 Impact of imports on American industry and employment, hearings before General Subcommittee on Labor, 90th Congress, 1st session, on H.R. 478 and 479. † ● Item 1015  
 L.C. card 67-62596 Y 4.Ed 8/1: Im 7/pt. (nos.)  
 pt. 1. Apr. 5-May 17, 1967. 1967. vii+1-555 p. il.  
 pt. 2. May 18-July 27, 1967. 1967. viii+557-1134 p. il.
- 16324 Juvenile delinquency prevention act of 1967, hearings before General Subcommittee on Education, 90th Congress, 1st session, on H.R. 7642, May 2-22, 1967. 1967. vii+671 p. il. † ● Item 1015  
 L.C. card 67-62590 Y 4.Ed 8/1: J 98/5
- 16325 Public safety agency employment data, hearings before Select Subcommittee on Labor, 90th Congress, 1st session, on H.R. 4996, July 20, 1967. 1967. iii+160 p. il. † ● Item 1015  
 L.C. card 67-62599 Y 4.Ed 8/1: P 96/7

## *Foreign Affairs Committee, House* *Washington, D.C. 20515*

- 16326 Peace Corps act amendment of 1967, hearings, 90th Congress, 1st session, on S. 1031, Sept. 19 and 26, 1967. 1967. iii+82 p. il. † ● Item 1017  
 L.C. card 67-62578 Y 4.F 76/1: P 31/7/967

## *Government Operations Committee, House* *Washington, D.C. 20515*

- 16327 Control and use of excess property and related foreign assistance problems following U.S. military exclusion from France, 1966-67, hearings before subcommittee, 90th Congress, 1st session, May 16-June 1, 1967. 1967. v+377 p. il. † ● Item 1016  
 L.C. card 67-62593 Y 4.G 74/7: P 94/6

\*For Sale by Superintendent of Documents  
 †Distribution Made by Issuing Office  
 ‡Official Use. Not Available

# NOVEMBER 1967

- 16328 Data processing management in Federal Government, hearings before subcommittee, 90th Congress, 1st session, July 18-20, 1967. iv+384 p. il.  
 † ● Item 1016  
 L.C. card 67-62361 Y 4.G 74/7: D 26
- 16329 Search and rescue operations for U.S. private pilots missing in foreign areas, hearing before subcommittee, 90th Congress, 1st session, Aug. 8, 1967. 1967. iii+98 p. il. † ● Item 1016  
 L.C. card 67-62622 Y 4.G 74/7: Se 1
- 16330 Support service contracts, hearing before subcommittee, 90th Congress, 1st session, June 21, 1967. 1967. iii+93 p. † ● Item 1016  
 L.C. card 67-62604 Y 4.G 74/7: C 76/4
- 16331 Travel expenses of Government employees, hearing before subcommittee, 90th Congress, 1st session, on H.R. 7113, Sept. 13, 1967. 1967. iii+29 p. † ● Item 1016  
 L.C. card 67-62684 Y 4.G 74/7: T 69/2/967

## Judiciary Committee, House Washington, D.C. 20515

[Committee hearings] serial, 90th Congress.

- 16332 7. Providing Monday holidays, hearings before subcommittee no. 4, 90th Congress, 1st session, on H.R. 1292 and H.R. 11679, Aug. 16, 17, 1967. 1967. iv+128 p. \* Paper, 35c. ● Item 1020  
 L.C. card 67-62363 Y 4.J89/1: 90-7
- 16333 District of Columbia code, annotated, containing laws, general and permanent in their nature, relating to or in force in District of Columbia (except such laws as are of application in District of Columbia by reason of being general and permanent laws of United States), in force on Jan. 9, 1967, notes to decisions through Dec. 1966. 1967 edition. 1967. \* Fabrikoid, \$19.25 per set of 3 vols. ● Item 990  
 L.C. card 67-61869 Y 4.J89/1: D63/24/967/v.1-3  
 v. 1. Title 1, Administration, to title 17, Review. xc+1-955 p. large 8°  
 v. 2. Title 18, Wills and probate of wills, to title 40, Motor vehicles. xvi+957-1973 p. large 8°  
 v. 3. Title 41, Partnerships, to title 49, Compilation and construction of code, Tables and Index. xvi+1975-2934 p. large 8°
- 16334 Report of Special Subcommittee on Application of Uniform Code of Military Justice to American Civilians in Republic of Vietnam; June 1967. 1967. ii+11 p. (Committee print, 90th Congress, 1st session.) †  
 L.C. card 67-62514 Y 4.J89/1: V 67

## Merchant Marine and Fisheries Committee, House Washington, D.C. 20515

[Committee hearings] serial, 90th Congress. † ● Item 1021  
 Y 4.M53: 90-(nos.)

- 16335 9. Independent Federal Maritime Administration, hearings before Subcommittee on Merchant Marine, 90th Congress, 1st session, on H.R. 159 and 105 identical and similar bills, July 12-Aug. 1, 1967. 1967. vi+623 p.  
 L.C. card 67-62394
- 16336 10. Migratory waterfowl regulations, 1967-68, hearing before Subcommittee on Fisheries and Wildlife Conservation, 90th Congress, 1st session, on wildlife conservation as it would relate to migratory waterfowl regulations, Aug. 10, 1967. 1967. v+127 p. il.  
 L.C. card 67-62597
- 16337 11. Federal Maritime Commission, legislation and activities report, hearings before Subcommittee on Merchant Marine, 90th Congress, 1st session, on H.R. 4231 and S. 706, H.R. 4329, H.R. 9473, report on activities of Federal Maritime Commission in administration of Shipping act, 1916, as amended, Aug. 15, 16, 1967. 1967. iv+139 p. il.  
 L.C. card 67-62595

## Post Office and Civil Service Committee, House Washington, D.C. 20515

- 16338 Civil post offices at military installations, summary of adequacy of civil post offices at military installations within United States; July 7, 1967. 1967. iii+6 p. (Committee print 4, 90th Congress, 1st session.) †  
 L.C. card 67-62515 Y 4.P84/10: M 59/3  
 [Committee hearings] serial, 90th Congress.

ΦFor Sale by Clearinghouse, U.S. Department of  
 Commerce, Springfield, Va. 22151  
 ●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

- 16339 18. Supergrade requirements, hearings before Subcommittee on Manpower and Civil Service, 90th Congress, 1st session, on H.R. 10376, H.R. 6715, June 13-July 27, 1967. 1967. iv+140 p. il. † ● Item 1022  
L.C. card 67-62350 Y 4.P84/10:90-18

## *Public Works Committee, House* Washington, D.C. 20515

[Committee publication], 90th Congress. † Y 4.P96/11:90-(nos.)

- 16340 90-9. Highway relocation assistance study, transmitted by Secretary of Department of Transportation to Congress, as required by Federal-aid highway act of 1966 (Public law 89-574, 89th Cong., Sept. 13, 1966); July 1967. 1967. viii+235 p. il. (Committee print.)  
L.C. card 67-62513
- 16341 90-10. National Visitors Center, report of National Visitors Center Study Commission, Sept. 1967; [edited by Lois Greulich Jackson]. 1967. iii+56 p. il. (Committee print.)  
L.C. card 67-62686

## *Science and Astronautics Committee, House* Washington, D.C. 20515

- 16342 Applied science and technological progress, report by National Academy of Sciences [articles, with bibliographies]. June 1967. ix+434 p. il. ([Committee print.]) \* Paper, \$1.50.  
L.C. card 67-62725 Y 4.Sci 2: Sci 2/3
- 16343 Junior college and education in the sciences, report of National Science Foundation to Subcommittee on Science, Research, and Development, 90th Congress, 1st session. 1967. x+103 p. il. (Serial H, committee print.) †  
L.C. card 67-62512 Y 4.Sci 2: 90-1/H

## *Veterans' Affairs Committee, House* Washington, D.C. 20515

- 16344 Lack of implementation of Public law 89-785 (medical education) by VA Department of Medicine and Surgery, hearings before Subcommittee on Hospitals, 90th Congress, 1st session, Aug. 28 and 29, 1967. 1967. iii+1931-2024 p. † ● Item 1027  
L.C. card 67-62354 Y 4.V64/3: M 46/16
- 16345 State veterans' laws, digests of State laws regarding rights, benefits, and privileges of veterans and their dependents, revised to July 1, 1967; [prepared by Office of General Counsel of Veterans' Administration]. 1967. v+277 p. (House committee print 99, 90th Congress, 1st session.) [Includes State enactments through 1967 sessions of legislatures. Brings up to date and supplements 1960 compilation published as House committee print 265, 86th Cong. 2d sess.] \* Paper, 65c.  
L.C. card 67-62720 Y 4.V64/3: L 41/2/967

## *Ways and Means Committee, House* Washington, D.C. 20515

- 16346 Section-by-section analysis and explanation of provisions of H.R. 5710, Social security amendments of 1967, as introduced on Feb. 20, 1967, together with other material; prepared and furnished by Department of Health, Education and Welfare. 1967. iii+91 p. il. (Committee print, 90th Congress, 1st session.) †  
L.C. card 67-62728 Y 4.W36: So 1/24/967-2

## SENATE Washington, D.C. 20510

### *Senate documents*

NOTE.—All Senate documents, entries for which are followed by a †, may be obtained from the Senate Document Room or from the issuing office.

Senate documents, 90th Congress.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# NOVEMBER 1967

- 16347 31. National Academy of Sciences, National Research Council, annual report, fiscal year 1963-64. [1967.] vii+276 p. \* (Available in departmental edition, \$1.00, NA 1.1:964 and sent to depositories in that form. See Entry no. 16876.)
- 16348 47. Automotive air pollution, 6th report of Secretary of Health, Education, and Welfare to Congress in Compliance with Public law 88-206 as amended by Public law 89-272, June 1967 [with list of references]; Aug. 31, 1967. 1967. iii+13 p. il. \* Paper, 10c. ● Item 996  
L.C. card 65-60651
- 16349 48. Wastes from watercraft, report of Department of Interior, Federal Water Pollution Control Administration to Congress in compliance with sec. 17, Public law 89-753, Aug. 7, 1967 [with bibliography]; Aug. 31, 1967. 1967. iii+62 p. \* Paper, 20c. ● Item 996  
L.C. card 67-62699
- 16350 50. Amendments to budget, Department of Transportation, fiscal year 1968. Sept. 20, 1967. 3 p. † ● Item 996

## Senate executive documents

Senate executive document, 90th Congress, 1st session.

- 16351 N. Income-tax convention with France, message from President of United States transmitting convention between United States and French Republic with respect to taxes on income, signed at Paris, July 28, 1967; Oct. 3, 1967. 1967. vii+20 p. †  
Y 1.90/1 : N

## Senate executive reports

Senate executive report, 90th Congress, 1st session.

- 16352 15. Consular convention with France, Report from Committee on Foreign Relations to accompany Ex. I, 90th Cong., 1st sess. Sept. 13, 1967. 18 p. †  
Y 1.90/1 : rp.15

## Senate reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

Senate reports on private bills, 90th Congress. † Senate Document Room, Capitol. ● Item 1008-B

- 16353 458. Duty-free entry of carillon for Northfield and Mount Hermon Schools. Report from Committee on Finance to accompany H.R. 1566. July 31, 1967. 2 p.
- 16354 459. Duty-free entry of mass spectrometer and rheogoniometer for Princeton University. Report from Committee on Finance to accompany H.R. 1886. July 31, 1967. 2 p.
- 16355 460. Duty-free entry of carillon for University of California. Report from Committee on Finance to accompany H.R. 3737. July 31, 1967. 2 p.
- 16356 461. Duty-free entry of mass spectrometer for Indiana University. Report from Committee on Finance to accompany H.R. 4934. July 31, 1967. 2 p.
- 16357 462. Duty-free entry of triaxial apparatus and rheogoniometer for Northwestern University. Report from Committee on Finance to accompany H.R. 4977. July 31, 1967. 2 p.
- 16358 463. Duty-free entry of ship model for Lutheran Church of the Covenant, Maple Heights, Ohio. Report from Committee on Finance to accompany H.R. 3029. July 31, 1967. 2 p.

Senate reports on public bills, 90th Congress. † Senate Document Room, Capitol. ● Item 1008-A

- 16359 399. Authorizing printing as House document of certain maps and indicia relating to Vietnam and Asian continent. Report from Committee on Rules and Administration to accompany H. Con. Res. 253. July 13, 1967. 2 p.
- 16360 541. Walt Disney gold medal. Report from Committee on Banking and Currency to accompany S.J. Res. 93. Aug. 25, 1967. 6 p.
- 16361 543. Required meetings of Marketing Research Advisory Committee. Report from Committee on Agriculture and Forestry to accompany S. 1477. Aug. 28, 1967. 3 p.
- 16362 559. Authorizing printing of report entitled Manpower and training needs of States and of local governments in water pollution control as Senate document. Report from Committee on Rules and Administration to accompany S. Res. 158. Aug. 30, 1967. 2 p.
- 16363 562. Authorizing printing of report of proceedings of 43d biennial meeting of Convention of American Instructors of the Deaf as Senate document. Report from Committee on Rules and Administration to accompany S. Con. Res. 40. Sept. 8, 1967. 3 p.
- 16364 563. Economic opportunity amendments of 1967. Report of Committee on Labor and Public Welfare on S. 2388 together with individual and supplemental views; Sept. 12, 1967. 1967. vi+223 p.
- 16365 564. Impact of crime on small business. Report of Select Committee on Small Business, on impact of crime on small business in Washington, D.C. area, together with individual views; Sept. 18, 1967. 1967. iii+12 p.

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

## Senate reports on public bills, 90th Congress—Continued

- 16366 565. Vocational rehabilitation amendments of 1967. Report from Committee on Labor and Public Welfare to accompany H.R. 12257. Sept. 18, 1967. 12 p.
- 16367 566. Extension of time for filing report of Commission on Urban Problems. Report from Committee on Banking and Currency to accompany S.J. Res. 112. Sept. 20, 1967. 2 p.
- 16368 567. Cost sharing on public fish and wildlife or recreational developments in resource and conservation development projects. Report from Committee on Agriculture and Forestry to accompany S. 852. Sept. 20, 1967. 6 p.
- 16369 568. Rice marketing excess, delivery to Commodity Credit Corporation. Report from Committee on Agriculture and Forestry to accompany S. 2195. Sept. 20, 1967. 3 p.
- 16370 569. Purchase of land from Texas Southmost College. Report from Committee on Agriculture and Forestry to accompany H.R. 472. Sept. 20, 1967. 2 p.
- 16371 570. Military construction authorization for fiscal year 1968. Report from Committee on Armed Services to accompany H.R. 11722. Sept. 21, 1967. 85 p.
- 16372 571. Departments of State, Justice, and Commerce, the judiciary, and related agencies appropriation bill, 1968. Report from Committee on Appropriations to accompany H.R. 10345. Sept. 26, 1967. 47 p.
- 16373 572. Department of Transportation appropriation bill, 1968. Report from Committee on Appropriations to accompany H.R. 11456. Sept. 28, 1967. 21 p.
- 16374 576. Water carrier mixing rule exemption. Report from Committee on Commerce to accompany S. 1314. Sept. 29, 1967. 16 p.
- 16375 577. Riots, civil and criminal disorders. Interim report of Committee on Government Operations made by its Permanent Subcommittee on Investigations; Oct. 2, 1967. 1967. ii+2 p.
- 16376 578. Transportation of mail by sea. Report from Committee on Post Office and Civil Service to accompany H.R. 3979. Oct. 2, 1967. 4 p.
- 16377 581. Increasing size of National Highway Safety Advisory Committee. Report from Committee on Public Works to accompany S. 1552. Oct. 6, 1967. 6 p.
- 16378 582. Amending act to provide for compulsory school attendance, for taking of school census in District of Columbia, and for other purposes. Report from Committee on District of Columbia to accompany S. 768. Oct. 6, 1967. 2 p.
- 16379 583. Amending act approved Apr. 20, 1966, as amended, providing for establishment of crematorium in District of Columbia. Report from Committee on District of Columbia to accompany S. 770. Oct. 6, 1967. 3 p.
- 16380 584. Raising maximum age limit of schoolchildren entitled to transportation in District of Columbia at reduced fare. Report from Committee on District of Columbia to accompany S. 1631. Oct. 6, 1967. 3 p.
- 16381 585. Amending District of Columbia public school food services act. Report from Committee on District of Columbia to accompany S. 2012. Oct. 6, 1967. 4 p.
- 16382 587. Establishment of register of blind persons in District of Columbia. Report from Committee on District of Columbia to accompany S. 1224. Oct. 6, 1967. 3 p.
- 16383 588. Authorizing Commissioners of District of Columbia to establish and administer plan to provide for care and protection of children through public day care services, and to provide public assistance in form of foster home care to certain dependent children. Report from Committee on District of Columbia to accompany S. 318. Oct. 6, 1967. 5 p.
- 16384 589. Exemption from licensing requirements for physicians and dentists employed by District of Columbia. Report from Committee on District of Columbia to accompany H.R. 3973. Oct. 6, 1967. 7 p.
- 16385 590. Payroll deductions for Federal employees. Report from Committee on Banking and Currency to accompany S. 1084. Oct. 9, 1967. 4 p.
- 16386 591. Modernization of Federal credit union loan and dividend procedures. Report from Committee on Banking and Currency to accompany S. 1085. Oct. 9, 1967. 4 p.

## *Agriculture and Forestry Committee, Senate* Washington, D.C. 20510

- 16387 Cooperative extension services in District of Columbia, hearing before subcommittee, 90th Congress, 1st session, on S. 2105, Sept. 26, 1967. 1967. iii+56 p. † ● Item 1032  
L.C. card 67-62579 Y 4.Ag 8/2: Ex 8/2

## *Appropriations Committee, Senate* Washington, D.C. 20510

- 16388 Department of Defense appropriations for fiscal year 1968, hearings before subcommittee, 90th Congress, 1st session, on H.R. 10738.  
L.C. card 60-61493 Y 4.Ap 6/2: D 36/4/968/pt.3  
pt. 3. [F-111B aircraft program.] 1967. ii+975-1086+iii p. † ● Item 1033
- 16389 Department of Transportation appropriations for fiscal year 1968, hearings before subcommittee, 90th Congress, 1st session, on H.R. 11456. 1967. ii+722+xvi p. il. † ● Item 1033  
L.C. card 67-62594 Y 4.Ap 6/2: T 68/2/968

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 16390 Departments of State, Justice, and Commerce, judiciary, and related agencies appropriations for fiscal year 1968, hearings before subcommittee, 90th Congress, 1st session, on H.R. 10345. 1967. ii+1137+xxii p. il. †  
 ● Item 1033  
 L.C. card 60-61699 Y 4.Ap 6/2: St 2/968

- 16391 Military construction authorization, fiscal year 1968, joint hearings. See Armed Services Committee, Senate.

- 16392 National Aeronautics and Space Administration appropriations for fiscal year 1968, hearings before subcommittee, 90th Congress, 1st session, on H.R. 12474. 1967. ii+209+x p. il. † Item 1033  
 L.C. card 67-62598 Y 4.Ap 6/2: N 21ae/2/968

- 16393 Public works and Atomic Energy Commission appropriations for fiscal year 1968, hearings before subcommittee, 90th Congress, 1st session, on H.R. 11641. † ● Item 1033 Y 4.Ap 6/2: P 96/3/968/pt. (nos.)  
 [pt. 1.] [Civil functions, Department of Army.] 1967. iii+1887+ii p.  
 [pt. 2.] [Civil functions, Department of Army.] 1967. ii+1889-3515+ii p.  
 [pt. 3.] [Bureau of Reclamation, Interior power activities.] 1967. ii+968+xiii p. il. 3 maps, 3 tab.  
 [pt. 4.] [Tennessee Valley Authority, Atomic Energy Commission.] 1967. ii+85+v p.

*Armed Services Committee, Senate*  
 Washington, D.C. 20510

- 16394 Air war against North Vietnam, hearings before Preparedness Investigation Subcommittee, 90th Congress, 1st session. † ● Item 1034  
 L.C. card 67-62358 Y 4.Ar 5/3: V 67/pt. (nos.)  
 pt. 1. Testimony of Adm. Ulysses G. Sharp, Navy, Commander in Chief, Pacific, Aug. 9 and 10, 1967. 1967. iii+121 p.  
 pt. 2. Testimony of Gen. Earle G. Wheeler, Army, Chairman, Joint Chiefs of Staff, and Lt. Gen. William W. Momyer, Air Force, Commander, 7th Air Force, Aug. 16, 1967. 1967. ii+123-197 p.  
 pt. 3. Testimony of Gen. John P. McConnell, Chief of Staff, Air Force, and Adm. T. H. Moorer, Chief of Naval Operations, Aug. 22 and 23, 1967. 1967. iii+199-271 p.  
 pt. 4. Testimony of Robert S. McNamara, Secretary of Defense, Aug. 25, 1967. 1967. iii+273-382 p.  
 pt. 5. Testimony of Gen. Harold K. Johnson, Chief of Staff, Army, Gen. Wallace M. Greene, Commandant, Marine Corps, Maj. Gen. Gilbert L. Meyers, USAF (retired), Aug. 28 and 29, 1967. 1967. iii+383-515 p.

- 16395 Military construction authorization, fiscal year 1968, joint hearings before Subcommittees on Military Construction of Committee on Armed Services and Committee on Appropriations, Senate, 90th Congress, 1st session, on S. 1241 (H.R. 11722), July 11-25, 1967. 1967. ii+766 p. il. † ● Item 1034 and 1033 Y 4.Ar 5/3: C 76/9/968

*Banking and Currency Committee, Senate*  
 Washington, D.C. 20510

- 16396 Bank underwriting of revenue bonds, hearings before Subcommittee on Financial Institutions, 90th Congress, 1st session, on S. 1306, Aug. 28-Sept. 12, 1967. 1967. ix+361 p. il. † ● Item 1035  
 L.C. card 67-62592 Y 4.B 22/3: B 22/15
- 16397 Prohibition on use of financial institutions as lottery agencies, hearing before Subcommittee on Financial Institutions, 90th Congress, 1st session, on H.R. 10595, Aug. 18, 1967. 1967. iii+73 p. il. † ● Item 1035  
 L.C. card 67-62359 Y 4.B 22/3: L 91

*Commerce Committee, Senate*  
 Washington, D.C. 20510

- [Committee hearings] serial, 90th Congress. ● Item 1041  
 Y 4.C 73/2: 90-(nos.)

- 16398 20. Amending sec. 22 of Interstate commerce act, hearings before Subcommittee on Surface Transportation, 90th Congress, 1st session, on S. 754 and S. 1174, June 5 and 6, 1967. 1967. iv+151 p. †  
 L.C. card 67-62400

ΦFor Sale by Clearinghouse, U.S. Department of  
 Commerce, Springfield, Va. 22151  
 ●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## [Committee hearings] serial, 90th Congress—Continued

- 16399 21. Water carrier mixing rule exemption, hearings before Subcommittee on Surface Transportation, 90th Congress, 1st session, on S. 1314, June 28 and 29, 1967. 1967. iv+109 p. il. †  
L.C. card 67-62391
- 16400 22. Projections, predictions of election results and political broadcasting (sec. 315, Communications act), hearings before Subcommittee on Communications, 90th Congress, 1st session, on S. 1548, S. 1859, S. 1926, S. 2090, and S. 2128, July 18-20, 1967. 1967. iv+369 p. il. †
- 16401 23. Federal Power Commission jurisdiction, hearings, 90th Congress, 1st session, on S. 1365, June 6-28, 1967. 1967. iv+329 p. il. †  
L.C. card 67-62585
- 16402 24. Riot insurance, hearing, 90th Congress, 1st session, on S.J. Res. 102 and amendments in nature of substitute, Aug. 29, 1967. 1967. iii+122 p. il. †
- 16403 25. Natural gas pipeline safety regulations, hearings, 90th Congress, 1st session, on S. 1166, Apr. 19-Aug. 3, 1967. 1967. v+426 p. il. \* Paper, \$1.25.  
L.C. card 67-62587
- 16404 Supplement to committee print of draft bill entitled Marine safety and seamen's welfare act of 1967; Aug. 1967. 1967. xiv+301 p. (Committee print, 90th Congress, 1st session.) †  
L.C. card 67-62719

Y 4.C 73/2: M 33/3

## *District of Columbia Committee, Senate* Washington, D.C. 20510

- 16405 District of Columbia hospital and health facility construction and modernization, hearing before Subcommittee on Public Health, Education, Welfare, and Safety, 90th Congress, 1st session, on S. 1228, Aug. 21, 1967. 1967. iv+114 p. † ● Item 1036  
L.C. card 67-62387
- 16406 Problems of air pollution in District of Columbia, hearings before Subcommittee on Business and Commerce, 90th Congress, 1st session, on S. 1941. L.C. card 67-61590
- pt. 2. July 20 and Aug. 29, 1967. 1967. iv+835-909 p. † ● Item 1036
- 16407 Use of air space in District of Columbia, hearings before Subcommittee on Business and Commerce, 90th Congress, 1st session, on S. 1245, S. 1246, and S. 1247, July 25 and 27, 1967. 1967. v+157 p. il. † ● Item 1036  
L.C. card 67-62666

Y 4.D63/2: H 79/4

Y 4.D 63/2: Ai 7/2/pt.2

Y 4.D63/2: Ai 7/3

## *Finance Committee, Senate* Washington, D.C. 20510

- 16408 Political campaign financing proposals, hearings, 90th Congress, 1st session, June 1-9, 1967. 1967. v+513 p. \* Paper, \$1.50. ● Item 1038  
L.C. card 67-62617
- 16409 Social security amendments of 1967, hearings, 90th Congress, 1st session, on H.R. 12080. ● Item 1038  
L.C. card 67-62386
- pt. 2. Aug. 28-Sept. 19, 1967. 1967. vii+737-1536 p. \* Paper, \$2.25.  
pt. 3. Sept. 20-26, 1967. 1967. xxxviii+1537-2053+A292 p. \* Paper, \$2.25.

Y 4.F49: P 75/967

Y 4.F49: So 1/8/967/pt. (nos.)

## *Foreign Relations Committee, Senate* Washington, D.C. 20510

- 16410 Human rights conventions, hearings, 90th Congress, 1st session, on Executive J, 88th Congress, 1st session, Convention on political rights of women, Executive K, 88th Congress, 1st session, Convention concerning abolition of forced labor, Executive L, 88th Congress, 1st session, Supplementary slavery convention. ● Item 1039
- pt. 2. Sept. 13, 1967. 1967. iii+126 p. †

Y 4.F76/2: H 88/pt.2

## *Government Operations Committee, Senate* Washington, D.C. 20510

- 16411 Criteria for evaluation in planning State and local programs, study [with selected bibliography; by Harry P. Hatry], submitted by Subcommittee

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

on Intergovernmental Relations (pursuant to S. Res. 55, 90th Cong.); July 21, 1967. 1967. ix+42 p. (Committee print, 90th Congress, 1st session.) †

L.C. card 67-62509

Y 4.G74/6: P 94/3

- 16412 Errata sheet, hearings on Federal role in urban affairs, pt. 1, Aug. 15 and 16, 1966. [1967.] 1 p. † ● Item 1037 Y 4.G74/6: Ur 1/4/pt.1/errata

- 16413 Federal role in urban affairs, hearings before Subcommittee on Executive Reorganization, 90th Congress, 1st session. ● Item 1037

L.C. card 67-60155

Y 4.G74/6: Ur 1/4/pt.(nos.)

pt. 15. Apr. 18, 1967. 1967. iv+3035-3244 p. ll. 4 tab. \* Paper, \$1.00.

pt. 17. Apr. 20 and 21, 1967. 1967. iv+3441-3625 p. ll. \* Paper, 50c.

pt. 16. Apr. 19, 1967. 1967. iii+3245-3439 p. \* Paper, 55c.

- 16414 Periodic congressional reassessment of Federal grants-in-aid to State and local governments; prepared by Advisory Commission on Intergovernmental Relations for Subcommittee on Intergovernmental Relations; July 10, 1967. 1967. ix+33 p. (Committee print, 90th Congress, 1st session.) [Report of Commission adopted June 1961, revised to include fiscal data as of Jan. 1967.] †

L.C. card 67-62511

Y 4.G74/6: G 76/3

- 16415 Planning-programming-budgeting, initial memorandum; prepared by Subcommittee on National Security and International Operations, pursuant to S. Res. 54, 90th Cong. 1967. v+8 p. (Committee print, 90th Congress, 1st session.) † ● Item 1037

L.C. card 67-62516

Y 4.G74/6: P 96/3

- 16416 Population crisis, hearings before Subcommittee on Foreign Aid Expenditures, 89th Congress, 2d session, on S. 1676. ● Item 1037

L.C. card 67-60617

Y 4.G74/6: P 81/966/pt.6

pt. 6. Index. 1966; [prepared by Tillis H. Brown, jr.]. 1967. v+310 p. \*Paper, 75c.

*Interior and Insular Affairs Committee, Senate*  
Washington, D.C. 20510

- 16417 Sawtooth National Recreation Area, hearing before Subcommittee on Parks and Recreation, 90th Congress, 1st session, on S. 1267, Aug. 23, 1967. 1967. iv+75 p. † ● Item 1040

L.C. card 67-62603

Y 4.In8/13: Sa 9/2/967

- 16418 Southwest Idaho water development project, hearing before Subcommittee on Water and Power Resources, 90th Congress, 1st session, on S. 697, Aug. 15, 1967. 1967. iv+69 p. † ● Item 1040

L.C. card 67-62606

Y 4.In8/13: Id 1

*Judiciary Committee, Senate*  
Washington, D.C. 20510

- 16419 Antiriot bill, 1967, hearings, 90th Congress, 1st session, on H.R. 421. L.C. card 67-62299

Y 4.J89/2: An 8/18/pt.2

pt. 2. Aug. 21-30, 1967. 1967. lii+589-873 p. \* Paper, 70c. ● Item 1042

- 16420 Bankruptcy legislation 1967, hearing before special subcommittee, 90th Congress, 1st session, on S. 578, S. 1316, H.R. 2517, H.R. 2518 and H.R. 2519, Apr. 3, 1967. 1967. iii+86 p. † ● Item 1042

L.C. card 67-62378

Y 4.J89/2: B 22/13/967

- 16421 Copyright law revision, hearings before Subcommittee on Patents, Trademarks, and Copyrights, 90th Congress, 1st session, pursuant to S. Res. 37 on S. 597. † ● Item 1042

L.C. card 67-62380

Y 4.J89/2: C 79/4/967/pt.(nos.)

pt. 1. Har. 15-17, 1967. 1967. lii+1-320 p.

pt. 2. Mar. 20-Apr. 4, 1967. 1967. lii+321-663 p. ll.

- 16422 Crises in Federal courts, hearings before Subcommittee on Improvements in Judicial Machinery, 90th Congress, 1st session, on administration of Jus-

# GOVERNMENT PUBLICATIONS

tice in Federal court system and S. 915 and H.R. 6111, Apr. 25-Sept. 8, 1967. 1967. vi+466 p. il. † ● Item 1042  
L.C. card 67-62608 Y 4.J89/2: F 31/10

16423 Federal jury selection, hearings before Subcommittee on Improvements in Judicial Machinery, 90th Congress, 1st session, on S. 383 [and other bills], Mar. 21-July 20, 1967. 1967. vii+1-592d, 593-689b, 690-1262 p. † ● Item 1042  
L.C. card 67-62609 Y 4.J89/2: J 97/10

16424 Possible anticompetitive effects of sale of network TV advertising, hearings before Subcommittee on Antitrust and Monopoly, 89th Congress, 2d session, pursuant to S. Res. 191.  
L.C. card 67-61601 Y 4.J89/2: Ad 9/pt.2  
pt. 2. Dec. 12-14, 1966. 1967. iv+515-1387 p. † ● Item 1042

16425 Prices of quinine and quinidine, hearings before Subcommittee on Antitrust and Monopoly, 90th Congress, 1st session, pursuant to S. Res. 26.  
L.C. card 66-62489 Y 4.J89/2: Q 4/pt.2  
pt. 2. Mar. 22 and 23, 1967. 1967. iii+171-781 p. il. † ● Item 1042

## *Labor and Public Welfare Committee, Senate* Washington, D.C. 20510

16426 Education legislation, 1967, hearings before Subcommittee on Education, 90th Congress, 1st session, on S. 1126. ● Item 1043  
L.C. card 67-61759 Y 4.L11/2: Ed 8/22/967/pt.2  
pt. 2. Apr. 26, 1967. 1967. iv+543-907 p. il. [Hearings held at Eugene, Oreg.] †

16427 Examination of war on poverty, hearings before Subcommittee on Employment, Manpower, and Poverty, 90th Congress, 1st session, on S. 1545 and related bills. † ● Item 1043  
L.C. card 67-61640 Y 4.L11/2: P 86/4/pt. (nos.)  
pt. 9. June 22-28, 1967. 1967. vi+2693-3026 p. il.  
pt. 10. July 10-18, 1967. 1967. vi+3027-3435 p. il.  
pt. 11. May 10-11, 1967. 1967. vii+3437-3742 p. il. [Hearings held in San Francisco and Stockton, Calif.]

16428 Hunger and malnutrition in America, hearings before Subcommittee on Employment, Manpower, and Poverty, 90th Congress, 1st session, July 11 and 12, 1967. 1967. v+311 p. il. † ● Item 1043  
L.C. card 67-62355 Y 4.L11/2: H 89

## *Post Office and Civil Service Committee, Senate* Washington, D.C. 20510

16429 Firefighters retirement, hearing before Subcommittee on Retirement, 90th Congress, 1st session, on S. 1507, July 26, 1967. 1967. iii+49 p. † ● Item 1044  
L.C. card 67-62610 Y 4.P84/11: F 51/2

16430 Fraudulent mail matter, hearing before Subcommittee on Postal Affairs, 90th Congress, 1st session, on S. 274, Aug. 15, 1967. 1967. iii+42 p. † ● Item 1044  
L.C. card 67-62611 Y 4.P84/11: F 86

16431 Government employees' training act, hearing before Subcommittee on Civil Service, 90th Congress, 1st session, on S. 236, Aug. 22, 1967. 1967. iii+39 p. † ● Item 1044  
L.C. card 67-62391 Y 4.P84/11: G 74/2

16432 Wage board employees, hearings, 90th Congress, 1st session, on S. 2303.  
L.C. card 67-61939 Y 4.P84/11: W 12/pt.2  
pt. 2. Aug. 21-24, 1967. 1967. iv+57-195 p. il. † ● Item 1044

## *Public Works Committee, Senate* Washington, D.C. 20510

16433 Nominations of Harold C. Jordahl, jr., and Willard Roper, hearing, 90th Congress, 1st session, on nomination of Harold C. Jordahl, jr., to be alternate Federal cochairman of Upper Great Lakes Regional Commission

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# NOVEMBER 1967

and nomination of Willard Roper, to be member of Mississippi River Commission, Aug. 22, 1967. 1967. ii+10 p. † ● Item 1045.  
L.C. card 67-62399 Y 4.P96/10: J 76

16434 Security of Capitol buildings, hearing before Subcommittee on Public Buildings and Grounds, 90th Congress, 1st session, on S. 2310, Sept. 21, 1967. 1967. iii+29 p. † ● Item 1045  
L.C. card 67-62583 Y 4.P96/10: C 17/4

16435 Water pollution, 1967, hearings before Subcommittee on Air and Water Pollution, 90th Congress, 1st session. ● Item 1045  
L.C. card 67-62623 Y 4.P96/10: W 29/2/967/pt.1  
pt. 1. S. 1591 and S. 1604, S. 1870, S. 1341, June 7-Aug. 7, 1967. 1967. vi+1-495 p. il. 2 pl. \* Paper, \$1.75.

## *Small Business, Select Committee on, Senate* Washington, D.C. 20510

16436 Competitive problems in drug industry, hearings before Subcommittee on Monopoly, 90th Congress, 1st session, on present status of competition in pharmaceutical industry.  
L.C. card 67-62381 Y 4.Sm 1/2: D 84/pt.1  
pt. 1. May 15-June 8, 1967. 1967. iii+1-441 p. il. \* Paper, \$1.25. ● Item 1049

16437 Contributions of science and technology to Federal crime insurance, report [with bibliographies, by Franklin P. Huddle]; Aug. 10, 1967. 1967. ix+175 p. il. (Committee print, 90th Congress, 1st session.) [Prepared by Science Policy Research Division, Legislative Reference Service, Library of Congress.] \* Paper, 45c.  
L.C. card 67-62716 Y 4.Sm 1/2: C 86/4

16438 Planning, regulation, and competition, hearing before subcommittees, 90th Congress, 1st session, seminar discussion of question: Are planning and regulation replacing competition in new industrial state? June 29, 1967. 1967. iii+66 p. \* Paper, 25c. ● Item 1049  
L.C. card 67-62616 Y 4.Sm 1/2: P 69

16439 Review of Small Business Administration financial assistance programs, report of Small Business Administration to Subcommittee on Financing and Investment; Aug. 25, 1967. 1967. v+25 p. il. (Committee print, 90th Congress, 1st session.) †  
L.C. card 67-62718 Y 4.Sm 1/2: Sm 1/6

16440 Status and future of small business, hearings, 90th Congress, 1st session, on status and future of small business in American economy. ● Item 1049  
L.C. card 67-62685 Y 4.Sm 1/2: St 2/pt.1  
pt. 1. Mar. 1-14, 1967. 1967. iv+1-407 p. il. 2 pl. †

## CONSUMER AND MARKETING SERVICE Agriculture Dept. Washington, D.C. 20250

1968 acreage-marketing guides. AMG (series).

16441 57. Winter vegetables and potatoes, Aug. 1967. 40 p. il. 4° † ● Item 18-D A 88.26/4: 57  
C&MS (series). † A 88.40/2: (nos.)

16442 55. Private school lunch management manual. [June 1967.] cover title, 28 p. 4° [Text on p. 2 of cover. Issued with perforations.] ● Item 19-A  
16443 57. Peanut market news, price summary, 1940-66. Sept. 1967. 19 p. il. 4° (Fruit and Vegetable Division.)

16444 Cotton varieties planted 1963-67 [errata]. Aug. 1, 1967. 1 p. 4° (Cotton Division.) † Consumer and Marketing Service, Market News Section, Cotton Division, P.O. Box 17723, Memphis, Tenn. 38117  
A 88.11/13: 963-67/errata

16445 List of chemical compounds authorized for use under USDA poultry, meat, rabbit and egg products inspection programs. Revised July 1967. [1967.] 100 p. 4° (Technical Service Division.) [List complete as of July 1, 1967.] \* Paper, 45c. ● Item 107-B A 88.6: C 42/967-2

♠For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

## GOVERNMENT PUBLICATIONS

- 16446 List of plants operating under USDA poultry and egg inspection and grading programs. June 1967. 62 p. 4° (Poultry Division.) †  
A 88.15/23: 967
- 16447 Plants under USDA continuous inspection, processed fruits and vegetables and related products. July 1967. [2]+37 p. 4° (Fruits and Vegetable Division, Processed Products Standardization and Inspection Branch.) †  
● Item 21-R A 88.43/2: 967
- 16448 United States standards for grades of green olives, effective Sept. 8, 1967. 2d issue, as amended. [1967.] [2]+9 p. 1 pl. 4° [Published in Federal register Nov. 4, 1966. Supersedes standards which have been in effect since Jan. 3, 1967.] † Chief, Processed Products Standardization and Inspection Branch, Fruit and Vegetable Division, C&MS, Department of Agriculture, Washington, D.C. 20250  
A 88.6/2: O1 4/2/967
- 16449 United States standards for grades of orange juice from concentrate, effective Aug. 31, 1967. 1st issue. [1967.] [9] p. il. 4° [Published in Federal register of July 18, 1967. Errata sheet, 1 p. oblong 24°, issued also.] † Chief, Processed Products Standardization and Inspection Branch, Fruit and Vegetable Division, C&MS, Department of Agriculture, Washington, D.C. 20250  
A 88.6/2: Or 1/8
- 16450 United States standards for grades of pasteurized orange juice, effective Aug. 31, 1967. 1st issue. [1967.] [10] p. il. 4° [Published in Federal register of July 18, 1967.] † Chief, Processed Products Standardization and Inspection Branch, Fruit and Vegetable Division, C&MS, Department of Agriculture, Washington, D.C. 20250  
A 88.6/2: Or 1/9

### COPYRIGHT OFFICE, Library of Congress Washington, D.C. 20540

Catalog of copyright entries, 3d series, v. 18.

LC 3.6/5: v.18/pt. (nos.)/no. (nos.)

- 16451 pt. 1. Books and pamphlets, including serials and contributions to periodicals, no. 2, July-Dec. 1964. 1967. x+1275-2513 p. 4° \* Paper, \$2.50. ● Item 791  
L.C. card 6-35347
- 16452 pt. 5. Music, no. 2, July-Dec. 1964. 1967. x+1249-2409 p. 4° \* Paper, \$3.50. ● Item 795  
L.C. card 6-35347

### COURT OF CLAIMS Washington, D.C. 20006

- 16453 Cases decided in Court of Claims, Oct. 1-Dec. 31, 1966, with report of decisions of Supreme Court in Court of Claims cases, v. 177; reported by Margaret Hunter Pierce, reporter. 1967. xxxiii+1182 p. 2 por. [Erratum, 1 p., issued also.] \* Cloth, \$5.00. ● Item 730  
L.C. card 11-11998  
Ju 3.9: 177

### CUSTOMS COURT

- 16454 United States Customs Court reports: v. 57, cases adjudged in United States Customs Court, July-Dec. 1966. [1967.] xiii+932 p. [Includes classification decisions 2707-2865, reappraisal decisions 11186-251, A.R.D. 210-216, valuation decisions V.D. 132-133, abstracted protest decisions P66/93-P66/387, abstracted reappraisal decisions R66/7-R66/69.] \* Cloth, \$3.50. ● Item 736  
L.C. card 39-29067  
Ju 9.5: 57

### DEFENSE COMMUNICATIONS AGENCY, Defense Dept. Arlington, Va. 22204

DCA circular.

- 16455 330-175-1. Standard, DCS [defense communications system] engineering-installation standards manual. Change 6. Feb. 20, 1967. vi+ [280] p. il. 4° [Includes list of effective pages. Issued in looseleaf form.] \* Paper, \$1.50.  
D 5.104: 330-175-1/ch.6

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

DEFENSE DEPARTMENT  
Washington, D.C. 20301

Armed Services procurement regulation supplement ASP's (series).

- 16456 3. Property administration. Aug. 1, 1967. [1]+iii+38 p. 4° [Issued with perforations.] \* Paper, 25c. ● Item 304 D 1.13/2-2:3

Cataloging handbook H (series). (Defense Supply Agency, Defense Logistics Services Center.) [Issued with perforations.] ● Item 314-A

- 16457 4-2. Federal supply code for manufacturers, United States and Canada: Code to name; prepared by Directorate of Cataloging. Oct. 1967. iv+75+445+[3] p. 4° ([Army Dept. supply bulletin SB 708-42.]) [Supersedes Oct. 1966 edition and supplements thereto, and SB 708-42, Oct. 1966, including C9, Sept. 1967 supplement.] \* Paper, \$7.50 (including basic handbook and cumulative monthly supplements); \$2.00 additional for foreign mailing. D 7.6/2:4-2/8

Cataloging manual M (series). (Defense Supply Agency, Defense Logistics Services Center.) [Issued with perforations.] ● Item 314-A

- 16458 1-2. Federal manual for supply cataloging: chap. 2, Item identification; [prepared by Defense Logistics Services Center]. July 1967. cover title, iii+[102] p. 4° ([Army Dept.] AR 708-12.) [Supersedes AR 708-12, Jan. 1965.] \* Paper, 70c. D 7.6/3:1-2/6

- 16459 Defense Contract Audit Agency, an auditing career. [1967.] cover title, 16 p. il. [Table of contents on p. 2 of cover.] † ● Item 306 D 1.2: C 18/3

Defense Supply Agency manual DSAM (series).

- 16460 4145.6. See Army Department field manual FM 38-40.  
16461 8300.1. Production manual for Contract Administration Services. June 1967. cover title, v+271 p. il. 3 pl. 4° [Issued with perforations. Supersedes DSAM 8300.1, Dec. 1964, and DSAM 4500.1, Feb. 1965.] ‡ ● Item 314-A D 7.6/8:8300.1/2

- 16462 Federal item identification guide: Heating elements, electrical, immersion, and nonimmersion. June 16, 1967. cover title, vi+[47] p. il. 4° (FIIG AO19; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] \* Paper, 40c. ● Item 314-A D 7.6/4: H 35

- 16463 — Washers. June 23, 1967. cover title, xi+[118] p. il. 4° (FIIG AO22; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued with perforations.] \* Paper, 75c. ● Item 314-A D 7.6/4: W 27

- 16464 Military assistance facts. May 1, 1966. cover title, [1]+v+31 p. il. oblong 12° [Supersedes Mar. 1, 1966 edition.] † D 1.2: M 59/5

Military standards. [Issued in looseleaf form.] ‡ ● Item 314-J D 7.10:(nos.)

- 16465 MIL-STD-429B. Printed-wiring and printed-circuits, terms and definitions. June 26, 1967. iv+7 p. 4° (FSC 5999.) [Supersedes MIL-STD-429A, Dec. 19, 1960.]  
16466 MIL-STD-649A. Aluminum and magnesium products, preparation for shipment and storage [effective July 12, 1967]. July 12, 1967. vi+45 p. il. 4° (FSC-PACK.) [Supersedes MIL-STD-649, July 19, 1963. Issued in looseleaf form.]  
16467 MIL-STD-709A. Ammunition color coding. June 30, 1967. iii+11 p. 4° (FSC 1395.) [Supersedes MIL-STD-709, June 27, 1960.]  
16468 MIL-STD-794A (ASG). Parts and equipment, procedures for packaging and packing [effective June 26, 1967]. June 26, 1967. v+48 p. 4° (FSC-PACK.) [Supersedes MIL-STD-794 (WP), Mar. 10, 1965. Issued in looseleaf form.]  
16469 MIL-STD-810B. Environmental test methods. June 15, 1967. v+[111] p. il. 4° (FSC MISC.) [Supersedes MIL-STD-810A (USAF), June 23, 1964. Issued in looseleaf form.]  
16470 MIL-STD-850A. Aircrew station vision requirements for military aircraft. June 8, 1967. iv+26 p. il. 4° (FSC 1500.) [Supersedes MIL-STD-850, Aug. 30, 1965.]  
16471 MIL-STD-1210. Fog and ice preventive compounds. June 5, 1967. v+13 p. 4° (FSC 6850.) [Issued with perforations.]

- 16472 MILSTRIP, Military assistance program addresses, supp. 2; Sept. 1, 1967. 1967. [320] p. 4° (DoD 4110.17-M; Office of Assistant Secretary of Defense, Installation and Logistics.) [Issued in looseleaf form. Super-



# GOVERNMENT PUBLICATIONS

sedes Supp. 2, Dec. 1, 1966, plus changes 1-5.] \* Paper, \$1.75. ● Item 314-A D 7.6/4: M59/supp.2/rev.

- 16473 MILSTRIP, Requisition fund codes, supp. 3; Sept. 1, 1967. [1967.] [3]+42 p. 4° (DoD 4140.17-M; Office of Assistant Secretary of Defense, Installations and Logistics.) [Issued in looseleaf form.] \* Paper, 25c. ● Item 314-A D 7.6/4: M 59/supp.3

[Standardization directory] SD-(series).

- 16474 1. Standardization directory, planning schedule and points of contact (FSC class and area assignments). Jan. 1, 1967. cover title, [1]+iv+23+49 p. 4° (Defense Standardization Program.) [Quarterly. Issued with perforations.] \* Paper, 50c. D 7.13: 1/19

- 16475 USAFI bulletin 2; June 1967. [1967.] cover title, [1]+15 p. 4° (United States Armed Forces Institute.) [Issued with perforations.] † D 1.10/3: 967/no.2

- 16476 USAFI supply announcement, Sept. 1966, change notice. [1967.] [5] p. 4° † D 1.10/3: 966-3/notice

## ECONOMIC DEVELOPMENT ADMINISTRATION, Commerce Dept. Washington, D.C. 20230

- 16477 Economic development and college enrollment, address by Thomas W. Harvey, Deputy Assistant Secretary of Commerce for Economic Development, scheduled for delivery at annual meeting of West Virginia Association of Collegiate registrars and Administrations Officers, Oct. 12, 1967. 1967. 10 p. 4° (Department of Commerce News.) † C 46.11: H 26/5

- 16478 Research review. (Office of Economic Research.) [Irregular. Published for employees of Economic Development Administration.] † C 46.26: (date)

June 1967—

- 16479 Role of Commerce Department in urban economic revitalization, address by Thomas W. Harvey, Deputy Assistant Secretary for Economic Development, before National Business League, Atlantic City, N.J., Sept. 15, 1967. 1967. 11 p. 4° † C 46.11: H 26/4

- 16480 Study to determine feasibility of establishing national program for training skilled aviation personnel; prepared by Arizona State University. [Sept. 1967.] [4]+x+[337] p. il. 4° \* Paper, \$1.75 ● Item 130-D L.C. card 67-62536 C 46.2: Av 5

## ECONOMIC OPPORTUNITY OFFICE, Executive Office of the President, Washington, D.C. 20506

- 16481 Conference proceedings, women in war on poverty, May 8, 1967. [1967.] cover title, 68 p. il. 4° † ● Item 857-H PrEx 10.2: W 84

- 16482 Guidelines for legal services programs. [1967.] v+14 p. il. 4° (Community Action Program.) † ● Item 857-H-2 L.C. card 67-62703 PrEx 10.8: L 52/3

- 16483 Head Start, child development program, manual of policies and instructions [with list of available materials]. Sept. 1967. v+49+A-45 p. 4° (Community Action Program.) [Instructions apply to applications for financial assistance for full year and summer child development program under title II-A of Economic opportunity act of 1964, as amended. Issued in looseleaf form.] † ● Item 857-H-2 PrEx 10.8: H 34/2

- 16484 VISTA fact book. Sept. 15, 1967. [145] p. il. 4° (Volunteers in service to America.) † ● Item 857-H-13 PrEx 10.21: 967

## ECONOMIC RESEARCH SERVICE, Agriculture Dept. Washington, D.C. 20250

Agricultural economic reports. ● Item 42-C A 93.28: (nos.)

- 16485 99. 1965 supplement to Costs of producing upland cotton in United States, 1964; [by I. R. Starbird and B. L. French]. [Sept. 1967.] iv+34 p. il. 4° † L.C. card 66-62961

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available



# NOVEMBER 1967

- 16486 119. Taxation of farmland on rural-urban fringe, summary of State preferential assessment activity; [by Thomas F. Hady and Thomas F. Stinson]. [Sept. 1967.] cover title, ii+80 p. 4° \* Paper, 45c.  
L.C. card Agr 67-338
- 16487 120. Hired farm working force of 1966, statistical report; [by Robert C. McElroy]. [Sept. 1967.] ii+30 p. il. 4° †  
L.C. card 58-61057

Costs and returns FCR (series). ([Farm Production Economics Division.]) † A 93.9/11:(nos.)

- 16488 47. Commercial dairy farms, northeast and midwest, 1966; [by Erling Hole and Rosa J. Cox]. Aug. 1967. [2]+9 p. il. 4°
- 16489 48. Commercial egg-producing farms, New Jersey, 1966; [by Owen K. Shugars, Robert G. Latimer, and Daphene E. Tippet]. Aug. 1967. 4 p. il. 4°
- 16490 49. Commercial tobacco-livestock farms, Bluegrass area and Pennyroyal area, Ky.-Tenn., 1966; [by Owen K. Shugars and others]. Aug. 1967. [2]+12 p. il. 4° [Prepared in cooperation with Kentucky and Tennessee Agricultural Experiment Stations.]

ERS-foreign (series). † • Item 76-G A 93.21/2:(nos.)

- 16491 196. Europe and Soviet Union agricultural situation, midyear review; [prepared in Europe and Soviet Union Branch]. Sept. 1967. 8 p. 4°
- 16492 197. Far East and Oceania agricultural situation, midyear review. Sept. 1967. 14 p. 4° (Foreign Regional Analysis Division.)
- 16493 198. Western Hemisphere agricultural situation, midyear review. [Sept. 1967.] 12 p. 4° (Foreign Regional Analysis Division.)
- 16494 199. Africa and west Asia agricultural situation, midyear review. [Sept. 1967.] 8 p. 4° (Foreign Regional Analysis Division.) [Updates report, Africa and west Asia agricultural situation, review of 1966 and outlook for 1967, ERS-foreign 186, May 1967.]

- 16495 U.S. foreign agricultural trade by countries, calendar year 1966. Oct. 1967. [2]+91+[1] p. il. 4° ([ERS-57; Trade Statistics and Analysis Branch, Foreign Development and Trade Division.]) [Supplement to monthly Foreign agricultural trade of United States.] † • Item 42-E  
L.C. card 66-65724 A 93.17/4: 966-2

- 16496 World food needs; [by] Quentin M. West [1966.]. [1]+25 p. il. 4° (Foreign Regional Analysis Division.) [Paper presented at Utah's 10th annual Agricultural and Industry Conference, Salt Lake City, Utah, Feb. 16, 1966.] † A 93.22: W 52

## EDUCATION OFFICE, Health, Education, and Welfare Dept. Washington, D.C. 20202

- 16497 Decisions from the field [what OE's decentralization means to schools and colleges; by James A. Turman]. [1967.] [3] p. il. large 4° (OE-10048.) [Reprinted from American education, July-Aug. 1967.] \* Paper, 10c.  
• Item 460-A-10 FS 5.210: 10048
- 16498 Education directory, 1966-67, pt. 3: Higher education. [1967.] cover title, ii+252 p. ([OE-50000-67.]) [Text on p. 2 and 4 of cover.] \* Paper, \$1.00. • Item 460 & 460-A-50  
L.C. card E13-213 FS 5.25: 966-67/pt.3
- 16499 Extended use of school facilities [with selected bibliography]; by R. N. Finchum. [1967.] vi+103 p. 4° (OE-21035; School plant management series.) \* Paper, 70c. • Item 460-A-21 FS 5.221: 21035
- 16500 Good training, good jobs, MDTA Detroit Skills Center. [1967.] [10] p. il. narrow 8° ([OE-87023; Division of Manpower Development and Training.]) † • Item 460-A-87 FS 5.287: 87023
- 16501 How to get money for college; by LaValle T. Trimble. [1967.] [4] p. il. 4° ([OE-55050.]) [Reprinted from American education, July-Aug. 1967.] \* Paper, 10c. • Item 460-A-55 FS 5.255: 55050
- 16502 Institutional assistance grant program, spring 1967 (sec. 524(b), pt. C, title 5, of Higher education act of 1965, P.L. 89-329). [1967.] iii+17+[1] p. 4° ([OE-55049-68.]) † • Item 460-A-55 FS 5.255: 55049-68
- 16503 Instructions for title 1, 1968 application forms, Public law 89-10, Elementary and secondary education act of 1965. [1967.] cover title, [1]+19 p. 4° (OE-37003.]) † • Item 460-A-37 FS 5.237: 37003

For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
• Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

- 16504 Inventory of counselor education programs, 1965-66; [by] Hubert W. Houghton and Laura M. Trexler. [1967.] v+53 p. 4° ([OE-25051.]) \* Paper, 45c. ● Item 460-A-25 FS 5.225: 25051
- 16505 Our short-changed city schools, address by Harold Howe II, Commissioner of Education, Department of Health, Education, and Welfare, before annual conference of National Association of State Boards of Education, New York City, Sept. 26, 1967. [1967.] 12 leaves, 4° † FS 5.8: H 83/39
- 16506 Overseas activities in support of modern foreign language and area studies, 1968-69. [1967.] vi+19+[1] p. oblong 12° (OE-14134.) † ● Item 460-A-14 FS 5.214: 14134-2
- 16507 Personal and family survival [course, announcement]. [1967.] [8] p. il. oblong 24° † ● Item 461 (Rev. 1965) FS 5.2: Su 7
- 16508 Preparation of professional personnel in education of handicapped children, summer 1968, academic year 1968-69, undergraduate traineeships, graduate fellowships, full-time summer session traineeships, Special Study Institutes, program development grants, manual for use by colleges and universities and State education agencies in applying for and administering programs authorized by Public law 85-926, as amended. Aug. 1967. 2+vi+13+[8]+16 p. 4° ([Bureau of Education for the Handicapped.]) † ● Item 461-A (Rev. 1965) FS 5.6/2: H 19/2  
L.C. card HEW 66-173
- 16509 Principles of public school accounting; [by] Bert K. Adams [and others]. [1967.] viii+272 p. (OC-22025, State educational records and reports series, handbook 2-B; [National Center for Educational Statistics.]) [Prepared in cooperation with American Association of School Administrators, Association of School Business Officials of United States and Canada, Council of Chief State School Officers, National School Boards Association.] \* Paper, \$1.25. ● Item 460-A-22 FS 5.222: 22025  
L.C. card HEW 67-152
- 16510 Report on cooperative research to improve nation's schools, summary of fiscal year 1966 educational research projects and programs administered by Office of Education, submitted under sec. 2(d) of Cooperative research act, fiscal year 1966. [1967.] vi+125 p. 4° (Bureau of Research.) [Text on p. 2 of cover.] † ● Item 467-E FS 5.82: 966
- 16511 Staffing for better schools, staffing for better schools under Title I, Elementary and secondary education act of 1965; [prepared by Malcolm Provus and others]. [1967.] vi+[2]+40 p. il. 4° (OE-23049.) [Prepared pursuant to contract OE C1-7000103-0103.] \* Paper, 30c. ● Item 460-A-23 FS 5.223: 23049
- 16512 Strength of a sparrow, address by Harold Howe II, U.S. Commissioner of Education, Department of Health, Education, and Welfare, before Urban Schools Conference, sponsored by National School Boards Association and Office of Vice President, Washington, D.C., Sept. 22, 1967. [1967.] 14 leaves, 4° † FS 5.8: H 83/40
- 16513 Title 2, Elementary and secondary education act, school library resources, textbooks, and other instructional materials, guidelines. [Revised May 1967.] [1967.] iv+45 p. 4° (OE-15059-A.) † ● Item 460-A-15 FS 5.215: 15059-A

## EMPLOYEES' COMPENSATION BUREAU, Labor Dept. Washington, D.C. 20210

- 16514 Medical facilities available to employees of United States Government injured in performance of duty under Federal employees' compensation act of Sept. 7, 1916, as amended. [Revised] Apr. 1967. [1967.] iv+38 p. 4° (Pamphlet BEC-576.) † ● Item 750 L 26.2: M 46/967  
L.C. card 30-27878

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

EMPLOYMENT SECURITY BUREAU, Labor Dept.  
Washington, D.C. 20210

- 16515 Address by Robert C. Goodwin, Administrator, Bureau of Employment Security, to 31st annual meeting of Interstate Conference of Employment Security Agencies, New Orleans, La., Sept. 25, 1967. [1967.] 17 leaves, 4° † L 7.33: G 63/23
- 16516 Instructions for administering and using the interest check list (developed by United States Employment Service). [Revised May 1967. [1967.] 2 p. 4° \* Paper, \$2.00 per 100; single 5c. ● Item 761 L 7.25: In 8/967
- 16517 Services for Indians [articles]. [1967.] cover title, 22+[2] p. il. 4° ([U.S. Employment Service.]) [Reprints from Employment service review.] † L 7.18/2a: In 2

ENGINEERS CORPS (Army), Defense Dept.

NOTE.—Orders or requests for publications of the Engineers Corps, other than those sold by the Superintendent of Documents or by offices of the Engineers Corps in other cities, should be addressed to Chief of Engineers, U.S. Army, Washington, D.C. 20310, Attention Publications Office.

- 16518 Annual report of chief of engineers, Army, on civil work activities [pertaining to rivers and harbors, flood control, beach erosion control, and related purposes], fiscal year 1966: v. 2, [Specific project data]. 1966 [published 1967]. iii+1845 p. il. [Also issued as H. doc. 4, pt. 2, 90th Cong., 1st sess. Document notation appears on cover and on title page of this edition in error.] \* Paper, \$5.00. ● Item 334 L.C. card 15-4908 D 103.1: 966/v.2

Coastal Engineering Research Center: Reprint R (series).

D 103.42/4: (nos.)

- 16519 2-67. Wave tests of revetment using machine-produced interlocking blocks; [by Jay V. Hall, jr.]. Aug. 1967. cover title, [1]+1025-85 p. il. 4° (U.S. Army Coastal Engineering Research Center.) [Originally presented in Tokyo at 10th Coastal Engineering Conference, Sept. 1966.] †
- 16520 3-67. Rock movement in large-scale tests of riprap stability under wave action; [by Thorndike Saville, jr.]. Aug. 1967. cover title, [1]+972-976 p. il. 4° [Reprinted from 10th Coast Engineering Conference in Tokyo.] †
- 16521 4-67. Variations in groin design; [by Dennis W. Berg and George M. Watts]. Sept. 1967. cover title, 79-100+[1] p. il. 4° [Reprinted from copyrighted Journal of Waterways and Harbors Division, proceedings of American Society of Civil Engineers, v. 93, no. WW2, May 1967.] †

— Technical memorandums.

D 103.42: (nos.)

- 16522 21. Multi-purpose data acquisition system for instrumentation of nearshore environment [with list of literature cited]; by W. A. Koontz and D. L. Inman. Aug. 1967. iv+38 p.+ [2] leaves, il. 4° [Text on p. 2 of cover.] † Limited distribution, Coastal Engineering Research Center, 5201 Little Falls Road, N.W., Washington, D.C. 20016
- 16523 22. Dune stabilization with vegetation on Outer Banks of North Carolina [with list of literature cited]; by W. W. Woodhouse, jr., and R. E. Hanes. Aug. 1967. viii+45 p.+ [2] leaves, il. 4° [Text on p. 2 of cover.] † Limited distribution, Coastal Engineering Research Center, 5201 Little Falls Road, N.W., Washington, D.C. 20016

Ohio River Division Laboratories: Technical report.

- 16524 4-61. Evaluation of Dynaflect for nondestructive testing of portland cement concrete pavements [with list of references]; by George M. Pace. Aug. 1967. cover title, x+135+[2] p. il. 4° † D 103.38: 4-61

Port series. [Part 1 of Port series is prepared by Division of Ports, Maritime Administration, Commerce Dept., and pt. 2 by Port Facilities Branch, Board of Engineers for Rivers and Harbors.]

- 16525 10. Port of Baltimore, Md., pt. 2. Revised 1966. 1967. v+118 p. il. 5 maps, 4° \* Paper, \$1.25. ● Item 340 D 103.8: 10/2

Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, Miss. (price upon application).

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

Waterways Experiment Station: Technical reports. D 103.24/2:(nos.)

- 16526 2-792. Stability of rubble-mound tsunami barrier, Hilo Harbor, Hawaii, hydraulic model investigation [with list of literature cited]; by A. M. Kamel. Army-MRC Vicksburg, Miss., Aug. 1967. xvi+48+[82] p. il. 4° [Sponsored by Army Engineer District, Honolulu.] †
- 16527 3-688. Dimensional analysis of performance of pneumatic tires on soft soils, Aug. 1965; errata sheet 2. Oct. 6, 1967. [2] leaves, il. 4° †
- 16528 6-787. Cement performance in concrete [with list of literature cited]; by Bryant Mather. Army-MRC Vicksburg, Miss., Sept. 1967. ix+34+[48] p. il. 4° [Sponsored by Office, Chief of Engineers, Army. Errata sheet, dated Oct. 12, 1967, 1 p., issued also.] †
- 16529 6-788. Methods of reducing size and number of voids on formed concrete surfaces; by B. J. Houston. Army-MRC Vicksburg, Miss., July 1967. xi+21+[14] p. il. 1 pl. 4° [Sponsored by Office, Chief of Engineers, Army.]

## ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, Commerce Dept., Washington, D.C. 20235

Climatology of United States 60-nos. Climates of States. (Environmental Data Services.) ● Item 273-B C 30.71/3:(nos.)

- 16530 20. Michigan [with bibliographies; by] Norton D. Strommen. May 1959, revised and reprinted Aug. 1967. [1967.] 25 p. il. 4° \* Paper, 20c.
- 16531 35. Oregon [with bibliography; by] Gilbert L. Sternes. Feb. 1960, revised and reprinted Aug. 1967. [1967.] 27 p. il. 4° \* Paper, 20c.

ESSA technical memorandum. (Institutes for Environmental Research, National Severe Storms Laboratory.)

- 16532 IERTM-NSSL 34. Note on probing balloon motion by Doppler radar [with list of references; by] Roger M. Lhermitte. July 1967. iv+14 + [2] p. il. 4° † Paper, \$3.00. C 52.15/2: IERTM-NSSL 34

ESSA technical report. (Institutes for Environmental Research; Institute for Earth Sciences.)

- 16533 IER46-IES 1. Analysis of earth's magnetic field from 1835 to 1965 [with list of references; by] Keith L. McDonald, Robert H. Gunst. July 1967. iv+87 p. il. 4° \* Paper, 50c. ● Item 208-B-7 C 52.15: IER 46-IES 1

- 16534 Hurricane safety rules. [June 1967.] [2] p. il. large 8° ([ESSA/PI 670001.]) \* Paper, \$1.50 per 100; single copy, 5c. ● Item 208-B-5 C 52.6: H 94

- 16535 Hydrologic cycle. [June 1967.] [8] p. il. 4° ([ESSA/PI 670003.]) \* Paper, 15c. ● Item 208-B-1 C 52.2: H 99

Key to meteorological records documentation.

- 16536 5.313. Catalog of meteorological satellite data, ESSA 3 television cloud photography, pt. 2, Jan. 1-Mar. 31, 1967. [1967.] [21+30+[182] p. il. 4° (Environmental Data Service.) \* Paper, \$1.50. ● Item 275-C C 30.66/2: 5.313/pt.2

- 16537 New knowledge from global sea, programs and mission of ESSA's Institute for Oceanography. [1967.] 20 p. il. oblong 16° ([ESSA/PI 670017.]) \* Paper, 25c. ● Item 208-B-1 C 52.2: Se 1

- 16538 Project Stormfury, ESSA fact sheet. Aug. 1967. [12] p. il. 4° † C 52.2: St 7/2

WB/BC-(series).

- 16539 90. Annotated bibliography on climate of Republic of Vietnam; by Annie E. Grimes. Aug. 1967. xiii+122 p. il. 4° (Environmental Data Service.) † C 52.21: 90

## FAMILY SERVICES BUREAU, Health, Education, and Welfare Dept. Washington, D.C. 20201

- 16540 Community planning for health, education, and welfare, annotated bibliography; compiled by [Dorothy M. Jones], Department library. [1967.] viii+57 p. ([BFS 13-31.]) \* Paper, 25c. ● (Special offer) L.O. card HEW 67-151 FS 14.217: C 73

- 16541 Public assistance, costs of State and local administration, services, and training, calendar year ended Dec. 31, 1966. Aug. 15, 1967. [13] p. oblong 8° (Division of Research.) [Issued with perforations.] † FS 14.202: P 96/7/966-2

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# NOVEMBER 1967

- 16542 Recipients of medical vendor payments under public assistance programs, Jan.-June 1966, July 1967. iv+[8] p. 4° (Division of Research.) [Issued with perforations.] †  
FS 14.202: M 46/7/966
- 16543 Source of funds expended for public assistance payments, calendar year 1966. Aug. 15, 1967. [11] p. 4° (Division of Research.) †  
L.C. card HEW 64-85 FS 14.215: 966-2

## FARM CREDIT ADMINISTRATION Washington, D.C. 20578

### Circular.

- 16544 E-43. Federal land bank system, 1917-67, half century of service to agriculture. [Jan. 1967.] cover title, 32 p. il. oblong 12° † ● Item 430-J-4  
FCA 1.4/2: E-43/2

## FARMER COOPERATIVE SERVICE, Agriculture Dept. Washington, D.C. 20250

### General reports. † A 89.11:(nos.)

- 16545 144. Owning or leasing of covered hopper cars by farmer cooperatives; [by Thomas H. Camp and David Volkin]. [July 1967.] vi+26 p. 4° [Includes list of other publications available.]  
L.C. card Agr 67-305
- 16546 145. Transportation factors in marketing soybeans, cottonseed, and their products, 16 selected cooperatives; [by William H. Thompson]. [Sept. 1967.] [2]+iv+36 p. il. 4° ● Item 65-A  
L.C. card Agr 67-364

## FEDERAL AVIATION ADMINISTRATION, Transportation Dept. Washington, D.C. 20553

- 16547 Airport activity statistics of certificated route air carriers, 12 months ended Dec. 31, 1966. June 1967. xiv+[1]+288+[1] p. il. oblong 8° [Semi-annual. Published jointly by Civil Aeronautics Board and Federal Aviation Administration.] \* Paper, \$2.00. ● Item 177-A TD 4.14: 966-2
- 16548 Aviation weather procedures handbook 7200.1 [Change] 4; June 14, 1967. [1967.] [22] p. 4° [Effective Oct. 1, 1967; cancellation date Apr. 1, 1968. Issued in looseleaf form.] † ● Item 431-D-1 FAA 3.8/2: W 37/ch.4
- 16549 Census of U.S. civil aircraft as of Dec. 31, 1965; [prepared by Information and Statistics Division]. [1967.] ix+174 p.+[2] leaves, il. 4° (Office of Management Services.) [Formerly issued as 2 separate annual reports, Statistical study of U.S. civil aircraft and U.S. active civil aircraft by State and county.] \* Paper, \$1.00. ● Item 431-A-16  
L.C. card 66-60131 TD 4.18: 965
- 16550 FAA air traffic activity, fiscal year 1967; [prepared by Viola W. Patterson and George Thompson. Aug. 1967. xii+200 p. il. 4° (Information and Statistics Division, Office of Management Services.) \* Paper, \$1.00. ● Item 431-C-1  
L.C. card 59-61457 TD 4.19: 967

### Federal aviation regulations. [Issued in looseleaf form.] ● Item 431-C-13 FAA 1.6/8:(nos.)

- 16551 pt. 25. Airworthiness standards: Transport category airplanes, Change 11, [effective] Aug. 1, 1967. [1967.] [9] p. 4° [Incorporates amdt. 25-12.] †
- 16552 Same: Change 12, [effective] July 27, 1967. [1967.] [11] p. 4° [Incorporates amdt. 25-13.] †
- 16553 pt. 39, v. 1. See below, Summary of airworthiness directives for small aircraft.
- 16554 pt. 61. Certification: Pilots and flight instructors, Change 25, [effective] July 20, 1967. [1967.] [10] p. 4° [Incorporates amdt. 61-35. One page intentionally left blank.] †
- 16555 pt. 93. Special air traffic rules and airport traffic patterns, Change 10, [effective] Oct. 6, 1967. [1967.] [9] p. 4° [Incorporates amendment 93-9.] †
- 16556 pt. 121. Certification and operations: Air carriers and commercial operators of large aircraft, Change 21, [effective] June 22, 1967. [1967.] [7] p. 4° [Incorporates amdt. 121-29.] †
- 16557 pt. 151. Federal aid to airports, Change 18, [effective] June 28, 1967. [1967.] [12] p. 4° [Incorporates amdt. 151-19.] †

♠For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

Handbooks. † ● Item 431-C-4

TD 4.8/2: (nos.)

- 16558 1100.2. FAA organization, FAA headquarters. [1967.] cover title, [202] p. il. 4° [Approved May 26, 1967. Issued in looseleaf form.]
- 16559 6000.6. United States interagency ground inspection manual: Air traffic control and navigational aid facilities. 1st edition. [Apr. 1967.] [47] p. 4° (Department of Army technical manual TM 11-2557-28; Department of Navy manual OPNAV INST. 3721.18; Department of Air Force manual AFM 101-3; Coast Guard manual GC 387.) [Issued in looseleaf form.]
- 16560 S300.4. Maintenance Division, general practices and procedures. [1967.] cover title. [43] p. 4° [Approved May 25, 1967. Issued in looseleaf form.]
- 16561 Service C weather schedules 7730.7, Change 2; July 10, 1967. [1967.] [37] p. il. 4° [Effective date Sept. 1, 1967; cancellation date Dec. 1, 1967. Issued in looseleaf form.] † ● Item 431-D-1  
FAA 3.8: W 37/3/966/ch.2
- 16562 Summary of airworthiness directives for small aircraft. Jan. 1, 1967. [477] p. il. 4° (Federal aviation regulations, pt. 39, v. 1.) [Incorporates current airworthiness directives issued through Dec. 1966. Issued in looseleaf form.] \* Paper, \$5.25 (including basic book and supplementary material for an indefinite period); \$1.25 additional for foreign mailing. ● Item 431-A-15  
TD 4.10/2: 967
- 16563 United States standard flight inspection manual [Change] 10. [Aug. 9, 1967.] [22] p. il. 4° (Handbook OA P 8200.1; Army [Dept.] TM 11-2557-25; Navy [Dept.] NAV WEPS 16-1-520; [Air Force Dept.] AFM 55-8; and Coast Guard] CG-317.) [Cancellation date Oct. 1, 1967. Issued in looseleaf form.] † ● Item 431-F-2  
FAA 5.9:963/ch.10

## FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

- 16564 No task more challenging, issues in domestic satellite policy, remarks by Nicholas Johnson, Commissioner, Federal Communications Commission, prepared for delivery to Sylvania Electronic Products, Inc., and Stanford University School of Law conference on peaceful uses of space, satellite technology and law, Palo Alto, Calif., Aug. 16, 1967. 1967. 9 p. 4° (4581.) †  
CC 1.15: J 62
- 16565 Statistics of principal domestic and overseas telegraph carriers reporting annually to Commission, as at Dec. 31, 1966 and for year then ended. [1967.] 4 leaves, narrow f°, folded into oblong 12° size. † CC 1.41: 966
- 16566 Statistics of telephone carriers, reporting annually to Commission as at Dec. 31, 1966 and for year then ended. [1967.] 4 leaves, narrow f°, folded into oblong 12° size. †  
CC 1.14/2: 966

## FEDERAL DEPOSIT INSURANCE CORPORATION Washington, D.C. 20429

### Report of call.

- 16567 78. Assets, liabilities, and capital accounts, commercial and mutual savings banks, Dec. 31, 1966. [July 1, 1967.] cover title, 42 p. oblong 8° [Call no. 77. Sept. 20, 1966 not tabulated for all banks.] †  
Y 3.F 31/8: 9/78

## FEDERAL EXTENSION SERVICE, Agriculture Dept. Washington, D.C. 20250

[Extension Service Circular] ESC (series). ● Item 59-A A 43.4: (nos.)

- 16568 560. Ginning cotton to preserve fiber quality [with bibliography; by Alfred M. Pendleton and Vernon P. Moore]. [Sept. 1967. 20 p. il. 4° [Prepared in cooperation with State land-grant colleges and universities.] \* Paper, 15c.
- 16569 561. Using visuals in agricultural extension programs. July 1967. cover title, 86+ [1] p. il. 4° [Originally published by International Cooperation Administration. Text on p. 2 of cover.] †
- 16570 Rural youth clubs around world, handbook for developing programs. 1967. cover title, 36 p. il. 4° [Prepared in cooperation with Agency for International Development, Department of State. Text on p. 2 and 3 of cover.] \* Paper, 25c. ● Item 61-B  
A 43.16/2: Y 8

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

**FEDERAL HOME LOAN BANK BOARD**  
Washington, D.C. 20552

- 16571 Answer to questions about insurance of savings accounts. Sept. 1967. [2] +8 p. il. narrow 8° † FHL 1.2: In 7/4
- 16572 Combined financial statements, 1965, members of Federal Home Loan Bank System [calendar year] 1965. [July 1967.] cover title, 176 p. il. [The last 5 pages are blank.] † FHL 1.12: 965-2  
L.C. card 52-26280
- 16573 Report of Federal Home Loan Bank Board for year ending Dec. 31, 1966, [covering operations of] Federal Home Loan Bank System, Federal Savings and Loan Insurance Corporation, Federal Savings and Loan System. [1967.] xi+150 p. il. † ● Item 595 FHL 1.1: 966  
L.C. card 50-54874
- 16574 Trends in savings and loan field, 1965. [July 1967.] cover title, [16] p. il. ([Data Management Division.]) [Last page left blank to be used for notes.] † FHL 1.15: 965  
L.C. card 52-37923

**FEDERAL HOUSING ADMINISTRATION, Housing and Urban  
Development Dept., Washington, D.C. 20411**

- 16575 Addendum 2, title 10, Land development handbook. June 23, 1967. [1]+33 p. 4° (F-1272.) [Issued with perforations.] † ● Item 589-A HH 2.6/6: L 22/add.2

**FEDERAL MARITIME COMMISSION**  
Washington, D.C. 20573

- 16576 Approved conference, rate and interconference agreements of steamship lines in foreign commerce of United States. Complete revision as of July 1, 1967. [1967.] [238] p. [Issued in looseleaf form.] \* Paper, \$4.50 (including basic manual and supplementary material for an indefinite period); \$1.25 additional for foreign mailing. ● Item 432-L FMC 1.11: 967  
FMC SP (series). † FMC 1.9: (nos.)
- 16577 67-13. Remarks of John Harlee, Chairman, Federal Maritime Commission, at dinner sponsored by Propeller Club, Charleston, S.C., Sept. 19, 1967. 1967. 13 p. 4°
- 16578 67-14. Remarks of John Harlee, Chairman, Federal Maritime Commission, before Civitan Club, Baltimore, Md., Sept. 22, 1967. 1967. 6 p. 4°
- 16579 67-15. Economic and promotional responsibilities of regulatory agency, remarks by James V. Day, Federal Maritime Commission, at American Merchant Marine Conference, sponsored by Propeller Club of United States, Honolulu, Hawaii, Oct. 11, 1967. 1967. 6 p. 4°

**FEDERAL POWER COMMISSION**  
Washington, D.C. 20426

- 16580 Development of electrically powered vehicles [with list of references]. Feb. 1967. [3]+38+A-12 p. il. 4° (Bureau of Power.) [Prepared at request of Committee on Commerce, Senate.] † FP 1.2: El 2/12  
L.C. card 67-62730
- 16581 Federal Power Commission reports, opinions, decisions, and orders, v. 32, July 1-Dec. 31, 1964. 1967. xliii+1636 p. 1 p. map. \* Cloth, \$5.50. ● Item 438 FP 1.20: 32  
L.C. card 40-29138

National electric rate book, rate schedules for electric service in communities of 2,500 population or more, residential, commercial, and industrial services. [Issued with perforations.]

NOTE.—The complete rate book is made up of separate publications, each representing a State. They are sold on subscription basis by the Superintendent of Documents, \$8.00 a year, \$3.00 additional for foreign mailing; single copy, 25c.

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

- 16582 National electric rate book: Arkansas. July 1967. [2]+14 p. 4° [Issued with perforations. Supersedes issue of Aug. 1966.] ● Item 437-A-3  
FP 1.18: Ar 4k/967
- 16583 — Michigan. Aug. 1967. [2]+32 p. 4° [Issued with perforations. Supersedes issue of Aug. 1966.] ● Item 437-A-20  
FP 1.18: M 58/967
- 16584 — Nebraska. July 1967. [2]+16 p. 4° [Issued with perforations. Supersedes issue of Nov. 1966.] ● Item 437-A-25  
FP 1.18: N 27/967
- 16585 — Texas. July 1967. [2]+48 p. 4° [Issued with perforations. Supersedes issue of July 1966.] ● Item 437-A-41  
FP 1.18: T 31/967

## FEDERAL REGISTER OFFICE, General Services Administration Washington, D.C. 20408

### Code of Federal regulations and Cumulative pocket supplements.

NOTE.—For the convenience of those who maintain complete sets of the Code of Federal regulations, arrangements have been made to supply the 1966 pocket supplements for use during 1967 and any completely revised volumes issued in 1967 on a subscription basis at \$100.00 a year, \$30.00 additional for foreign mailing. The revised volumes and supplements will be mailed as printed and all subscribers will receive expiration notices in ample time to renew their subscriptions, thus avoiding loss of continuity. The Superintendent of Documents will continue to make available the revised volumes and individual supplements for those who do not maintain complete sets.

- 16586 Code of Federal regulations: Title 1 [General provisions], title 2 [Congress], title 3 [the President], revised as of Jan. 1, 1967. [1967.] viii+647 p. [Contains codification of documents of general applicability and future effect as of Jan. 1, 1967, with ancillaries.] \* Paper, \$1.75. ● Item 572  
L.C. card 49-46198  
GS 4.108: 1-3/967
- 16587 United States statutes at large containing laws and concurrent resolutions enacted during 2d session of 89th Congress of United States of America, 1966 and reorganizations plans and proclamations; [published by authority of law under direction of Administrator of General Services by Office of Federal Register, National Archives and Record Service]. 1967.  
● Item 576  
L.C. card 7-35353  
GS 4.111: 80/pt.2  
v. 80, pt. 2. Private laws, concurrent resolutions and proclamations. xviii+[1]  
+1615-1832 p. large 8° \* Cloth, \$2.75.

## FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS Washington, D.C. 20551

- 16588 All banks in United States and other areas, principal assets and liabilities, by States, Dec. 31, 1966. July 1967. [4] p. oblong 8° (Federal reserve statistical release E.4(a).) †  
FR 1.28/2: 966-2
- 16589 Changes in time and savings deposits, Apr.-July 1967; [prepared by Caroline H. Cagle]. [1967.] [1]+1488-1510 p. 4° [Reprinted from Federal reserve bulletin, Sept. 1967.] †  
FR 1.3/a: D 441/11/967-2
- 16590 Financial institutions and urban rehabilitation, remarks by Andrew F. Brimmer, member, Board of Governors of Federal Reserve System, before annual convention of National Bankers Association, Kansas City, Mo., Sept. 22, 1967. [1967.] 23 p. 4° †  
FR 1.23: B 77/18
- 16591 Historical chart book, 1967. [1967.] [4]+123 p. il. oblong 8° [Contains charts that supplement monthly Federal reserve chart book.] † Paper, 60c. quantities of 10 or more in single shipment, 50c. each; 10c. additional for foreign mailing, one copy included in annual subscription to Federal reserve chart book.  
L.C. card 50-13379  
FR 1.30/2: 967
- 16592 Interest cost effects of commercial bank underwriting of municipal revenue bonds. [1967.] p. 1287-1302 4° [Reprinted from Federal reserve bulletin, Aug. 1967.] †  
FR 1.3/a: In 8/10

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 16593 Liquidity and monetary management in 1967, remarks of George W. Mitchell, member, Board of Governors of Federal Reserve System, at annual convention of Wisconsin Savings and Loan League, Green Bay, Wis., Sept. 23, 1967. 1967. [1]+16 p. 4° † FR 1.23: M 69/42
- 16594 Recent credit and monetary developments. [1967.] p. 1075-1086 il. 4° [Reprinted from Federal reserve bulletin, July 1967.] † FR 1.3/a: C 86/12/967
- 16595 Revision of bank credit series; [prepared by Edward R. Fry and Mary F. Weaver]. [1967.] p. 1511-17, 4° [Reprinted from Federal reserve bulletin, Sept. 1967.] † FR 1.3/a: C 86/21/967
- 16596 Revision of money supply series; prepared by Edward R. Fry, Darwin L. Beck, and Mary F. Weaver. [1967.] p. 1303-1316 il. 4° [Reprinted from Federal reserve bulletin, Aug. 1967.] † FR 1.3/a: M 746/24/967
- 16597 Rules of organization, rules of procedure (12CFR262), as revised effective Aug. 9, 1967. [1967.] [3]+15 p. † FR 1.8/2: Or 3/967
- 16598 Summary of remarks by J. Dewey Daane, member, Board of Governors of Federal Reserve System before 1967 Northern New England School of Banking, University of New Hampshire, Durham, N.H., Sept. 11, 1967. 1967. [4] leaves, 4° † FR 1.23: D 11/13
- 16599 Treasury and Federal reserve foreign exchange operations; prepared by Charles A. Coombs. [1967.] p. 1518-1530, 4° [Reprinted from Federal reserve bulletin, Sept. 1967.] † FR 1.3/a: F 761/2/967-2

**FEDERAL SUPPLY SERVICE, General Services Administration  
Washington, D.C. 20405**

- 16600 Federal specifications. ● Item 563 GS 2.8:

NOTE.—These specifications are now so completely covered by the Index of Federal specifications, standards, and handbooks with cumulative monthly supplements, that listing in the Monthly Catalog of United States Government Publications represents unnecessary and wasteful duplication of effort. For that reason they will no longer be listed.

Complete information on the Index of Federal specifications will be found in the Appendix to the February 1967 issue of the Monthly Catalog under Entry number 3409 and in the April 1967 issue under Entry number 6335.

**Federal standards. [Issued with perforations.] ● Item 563**

GS 2.8/3:(nos.)

NOTE.—Federal standards may be purchased from the General Services Administration, Specifications Activity, Printed Materials, Supply Division, Building 197, Naval Weapons Plant, Washington, D.C. 20407. *All checks and money orders should be made payable to the Treasurer of the United States.* Single copies are available without charge at the nearest GSA regional office.

- 16601 146. Tolerances for copper and copper base alloy mill products, Jan. 16, 1961, Change notice 2; Apr. 24, 1967. [1967.] [1]+29-31 p. 4° †
- 16602 162a. Hose, rubber, visual inspection guide for. May 9, 1967, cover title, 225 p. il. 4° (FSC 4720.) [Text on p. 2 of cover. Supersedes Int. Fed. std. 00162 (NAVY-SHIPS), June 14, 1965.] † Paper, \$1.25.
- 16603 182a. Identification marking of nickel and nickel base alloys; June 9, 1967. [1967.] 7 p. 4° [Supersedes Ftd. std. 182, July 1, 1959.] † Paper, 5c.
- 16604 255a. Mount, film slide, photographic (overhead projector). June 12, 1967. 2 p. 4° (FSC 6750.) [UU-M-650, issue in effect. Supersedes Int. Fed. Std. 00255 (GSA-FSS), Jun. 16, 1967.] † Paper, 5c.

**Federal test method standard. [Issued in looseleaf form.] ● Item 563**

NOTE.—Federal test method standards may be purchased from the General Services Administration, Specifications Activity, Printed Materials Supply Division, Building 197, Naval Weapons Plant, Washington, D.C. 20407. *All checks and money orders should be made payable to the Treasurer of the United States.* Single copies are available without charge at the nearest GSA regional office.

- 16605 101a. Preservation, packaging and packing materials, test procedures, Oct. 21, 1959, Change notice 6; Apr. 24, 1967. [1967.] [38] p. il. 4° † GS 2.8/7: 101a/ch.6
- 16606 GSA stock catalog: pt. 1, General supplies [effective Oct. 1, 1967]. Oct. 1967, cover title, xiv+252 p. il. 4° [Supersedes Stock catalog, pt. 1, Oct. 1966 and supplements.] \* Paper, \$2.25 (including basic catalog and sup-

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 49

# GOVERNMENT PUBLICATIONS

plementary material for an indefinite period), 75 c. additional for foreign mailing. ● Item 565-B GS 2.10/6: pt.1/967

- 16607 GSA stock catalog: pt. 2, Standard forms. Oct. 1967. cover title. 24 p. 4° [Prices apply to orders received Oct. 1, 1967 and until further notice. Text and illustration on p. 2 of cover.] † ● Item 565-B

GS 2.10/6: pt.2/967

- 16608 — pt. 3, Hand tools FSG 21 and FSG 52 items, Apr. 1967, supplement. Oct. 1967. 8 p. 4° [Lists new items and price changes. Effective Oct. 1, 1967. Supersedes July 1967 supplement.] \* Paper, 5c. ● Item 565-B GS 2.10/6: pt.3/967/supp.2

## FEDERAL WATER POLLUTION CONTROL ADMINISTRATION, Interior Dept., Washington, D.C. 20242

- 16609 Pollution of Lake Erie and its tributaries, conference proceedings, 3d session, Buffalo, N.Y., Mar. 22, 1967. [1967.] † ● Item 473-A-1  
1 67.2: Br 4/967/v. (nos.)  
v. 1. cover title, a + 1-3h + 4 267 p. il. 4°  
v. 2. cover title, [1] + 268-488 p. il. 4°

## FISH AND WILDLIFE SERVICE, Interior Dept. Washington, D.C. 20240

C.F.S. (series). (Bureau of Commercial Fisheries.) † ● Item 610-A

1 49.8/2: (nos.)

- 16610 4415. Shrimp landings, 1966, annual summary. [June 1967.] 19 p. il. 4° [Prepared in cooperation with Fishery agencies of North Carolina, South Carolina, Florida, Alabama, Louisiana, and Texas.]  
16611 4416. Florida landings, 1966, annual summary. [May 1967.] 18 p. il. 4° [Prepared in cooperation with Florida State Board of Conservation.]  
16612 4445. Imports and exports of fishery products, 1965-66, annual summaries. [1967.] 9 p. il. 4°  
16613 4446. Georgia landings, 1966 annual summary. [July 1967.] 6 p. il. 4° [Prepared in cooperation with Georgia State Game Fish Commission, Atlanta, Ga.]  
16614 4447. South Carolina landings, 1966, annual summary. [July 1967.] 6 p. il. 4° [Prepared in cooperation with South Carolina Wildlife Resources Department, Division of Commercial Fisheries, Charleston, S.C.]  
16615 4450. Mississippi landings, 1966 annual summary. [July 1967.] 6 p. il. 4° [Prepared in cooperation with Mississippi Marine Conservation Commission, Biloxi, Miss.]  
16616 4451. Alabama landings, 1966, annual summary. [July 1967.] 6 p. il. 4° [Prepared in cooperation with Alabama Department of Conservation].  
16617 4459. Fish meal and oil, 1966, annual summary. [July 1967.] 4 p. il. 4°  
16618 4462. Virginia landings, 1966, annual summary. [Aug. 1967.] 12 p. il. 4° [Prepared in cooperation with Virginia Commission of Fisheries, Newport News, Institute of Marine Science, Gloucester Point, Potomac River Fisheries Commission, Colonial Beach.]

Circulars. † ● Item 609

1 49.4: (nos.)

- 16619 259. Steps to effective sanitation in smoked-fish plants, by J. B. Dougherty and Harry L. Seagran. Errata sheet. [1967.] 1 p. 4°  
16620 262. Report of Technological Laboratory, Bureau of Commercial Fisheries, Pascagoula, Miss., fiscal year 1966 [with list of publications]; by Travis D. Love and Mary H. Thompson. Sept. 1967. iv + 14 p. il. 4° (Bureau of Commercial Fisheries.)  
L.C. card 67-60644

- 16621 Native sandhills grasses, Valentine National Wildlife Refuge, Cherry County, Nebr. [1967.] [8] p. il. (Bureau of Sport Fisheries and Wildlife.) [Description of grass plant and reproductions of grass drawings courtesy of Phillips Petroleum Company.] †  
1 49.2: G 76

Refuge leaflet. (Bureau of Sport Fisheries and Wildlife.)

- 16622 413. Surplus animal disposal on national wildlife refuges, July 1967. 5 p. il. 4° †  
1 49.44: 413

Regulatory announcement.

- 16623 79. Federal regulations governing hunting, possession, transportation, importation of waterfowl, coots, and cranes, gallinules and snipe, 1967-68, Sept. 1967. 16 p. (Bureau of Sport Fisheries and Wildlife.) † ● Item 613  
1 49.24: 79

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# NOVEMBER 1967

## Resource publications.

I 49.66 : (nos.)

- 16624 35-38. Investigations in fish control: 18. Toxicity of 22 therapeutic compounds to 6 fishes [with list of references], by Wayne A. Willford; 19. Toxicity of Bayer 73 to fish [with list of references], by Lef L. Marking and James W. Hogan; 20. Toxicity of dimethyl sulfoxide (DMSO) to fish [with list of references], by Wayne A. Willford; 21. Labor-saving devices for bioassay laboratories [with one reference], by Robert J. Hesselberg and Ralph M. Burress. Apr. 1967. [42] p. il. 4° (Bureau of Sport Fisheries and Wildlife.) \* Paper, 30c. ● Item 613-B
- 16625 40. Division of Fishery Services, annual report for 1966, with summary of accomplishments, 1957-66; [by] Willis King. June 1967. vi+55 p. il. 4° (Bureau of Sport Fisheries and Wildlife.) †
- 16626 41. Annual report for 1966, cooperative fishery units; prepared by Travis Roberts. June 1967. iv+80 p. il. 4° (Division of Fishery Services, Bureau of Sport Fisheries and Wildlife.) [Includes list of publications and papers prepared and presented by unit personnel.] †  
L.C. card 66-60288

## Special scientific reports: Fisheries (series) (Bureau of Commercial Fisheries.) † ● Item 614-B

I 49.15/2 : (nos.)

- 16627 552. Trade wind zone oceanography pilot study: pt. 1, Townsend Cromwell cruises 1, 2, and 3, Feb.-Apr. 1964 [with list of literature cited]; by Robert L. Charnell, David W. K. Au, and Gunter R. Seckel. June 1967. v+75 p. il. 4°
- 16628 553. Same: pt. 2, Townsend Cromwell cruises 4, 5, and 6, May-July 1964 [with list of literature cited]; by Robert L. Charnell, David W. K. Au and Gunter R. Seckel. June 1967. v+78 p. il. 4°
- 16629 554. Same: pt. 3, Townsend Cromwell cruises 8, 9, and 10, Sept.-Nov. 1964 [with list of literature cited]; by Robert L. Charnell, David W. K. Au and Gunter R. Seckel. June 1967. v+78 p. il. 4°
- 16630 555. Same: pt. 4, Townsend Cromwell cruises 11, 12, and 13, Dec. 1964-Feb. 1965 [with list of literature cited]; by Robert L. Charnell, David W. K. Au, and Gunter R. Seckel. June 1967. v+78 p. il. 4°
- 16631 556. Same: pt. 5, Townsend Cromwell cruises 14 and 15, Mar. and Apr. 1965 [with list of literature cited]; by Robert L. Charnell, David W. K. Au, and Gunter R. Seckel. June 1967. iv+54 p. il. 4°
- 16632 557. Same: pt. 6, Townsend Cromwell cruises 16, 17, and 21, May and June 1965 and Jan. 1966 [with list of literature cited]; by Robert L. Charnell, David W. K. Au, and Gunter R. Seckel. June 1967. iv+59 p. il. 4°

## — Wildlife (series). (Bureau of Sport Fisheries and Wildlife.) ● Item 614-C

I 49.15/3 : (nos.)

- 16633 100. Green-winged teal, its distribution, migration, and population dynamics, Corrections. [1967.] [3] p. il. 4° †
- 16634 103. Contributions toward bibliography on brant; by Jerry L. Hout. May 1967. [1]+15 p. 4° \* Paper, 20c.
- 16635 104. Magpie reduction in an urban roost [with list of literature cited]; by Joseph L. Guarino and Edward W. Schafer. June 1967. ii+5 p. 4° †

## Technical papers. (Bureau of Sport Fisheries and Wildlife.)

- 16636 13. Test of different components in Abernathy salmon diet [with list of literature cited]; by Laurie G. Fowler and Joe L. Banks. Aug. 1967. 18 p. 4° \* Paper, 20c. ● Item 615-A  
I 49.68 : 13

## Wildlife leaflet.

- 16637 476. Protecting corn from blackbirds; by Robert T. Mitchell and John T. Linehan. Aug. 1967. 8 p. il. 4° (Bureau of Sport Fisheries and Wildlife.) †  
I 49.13 : 476

## FLIGHT STANDARDS SERVICE, Transportation Dept. Washington, D.C. 20553

- 16638 Acceptable methods, techniques, and practices: Aircraft alterations, Change 2. [1967.] [22] p. il. 4° (Advisory circular AC 43.13-2, change 2.) [Effective May 26, 1967. Issued in looseleaf form.] \* Paper, \$1.00 (including basic book and supplementary material for an indefinite period); 25c. additional for foreign mailing. ● Item 431-F-6  
FAA 5.16 : 965/ch.2

## FOOD AND DRUG ADMINISTRATION, Health, Education, and Welfare Dept., Washington, D.C. 20201

### FDA poster.

- 16639 2. Use medicated feeds carefully and wisely, protect public health, avoid economic loss. June 1967. 20 x 16 in. \* Paper, \$11.25 per 100; single copy, 15c.  
FS 13.127 : 2

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 51

# GOVERNMENT PUBLICATIONS

- 16640 Pesticide analytical manual: v. 2, Methods for individual pesticide residues; compiled and edited by R. E. Duggan [and others]. Revised July 1967. [1967.] [371] p. il. 4° [References interspersed. Issued in loose-leaf form.] ‡ FS 13.119: P 43/ v.2/967

## FOREIGN AGRICULTURAL SERVICE, Agriculture Dept. Washington, D.C. 20250

[Foreign Agricultural Service miscellaneous], FAS M (series).

A 67.26:(nos.)

- 16641 191. U.S. imports of horticultural products; [by Richard B. Schroeter]. Aug. 1967. iv+24 p. il. 4° ‡  
L.C. card Agr 67-365
- 16642 192. Common Market grain statistics 1955-56 through 1965-66. Sept. 1967. [2]+21 p. il. 4° [This report revises and updates many of earlier series, and also contains some additional price data.] ‡ ● Item 76-G
- 16643 193. Report on agricultural trade negotiations of Kennedy Round. Sept. 1967. v+151 p. 4° [Errata, 2 p., issued also]. \* Paper, 75c. ● Item 76-G

## FOREST SERVICE, Agriculture Dept. Washington, D.C. 20250

- 16644 Computer program for calculating veneer recovery volume and value; [by] Richard O. Woodlin, jr., Mary Anne Mei. July 1967. cover title. [2]+39 p. 4° (Pacific Northwest Forest and Range Experiment Station.) [Text on p. 2 of cover. References in footnotes.] ‡ A 13.66/2: V 55
- 16645 Distribution of plant-parasitic nematodes associated with forest trees of world [with list of literature cited]; by John L. Ruehle. May 1967. cover title, 156 p. il. 4° (Southeastern Forest Experiment Station, Asheville, N.C.) ‡  
L.C. card 67-62723 A 13.63/2: N 34
- Forest pest leaflets. ‡ ● Item 82-A A 13.52:(nos.)
- 16646 12. Black turpentine beetle; [with list of references]; by R. H. Smith and R. E. Lee. Mar. 1957, slightly revised July 1967. [1967.] 7 p. il. L.C. card Agr 67-343
- 16647 109. Hemlock borer [with list of references]; by Harvey J. MacAloney. Sept. 1967. 4 p. il. 4°  
L.C. card Agr 67-366
- 16648 Help Lassie keep America beautiful; [colored poster]. 1967. 18.5 x 12.5 in. (P64-8.) \* Cardboard \$15.00 per 100; single copy 20c. A 13.20/3: B 38
- 16649 Key to Nearctic parasites of genus Rhyacionia, with species annotations [with list of literature cited]; by Harry O. Yates III. May 1967. cover title, 127 p. il. 4° (Southeastern Forest Experiment Station, Asheville, N.C.) [Text on p. 2 and 3 of cover.] ‡  
L.C. card 67-62740 A 13.63/2: P 21
- 16650 List of available publications. (Pacific Southwest Forest and Range Experiment Station.) [Quarterly.] ‡ A 13.62/1-3:(date)  
Apr. 1967—
- 16651 Protecting national forest resources: Areas of limited public use in national forests in California. May 1967. [4] p. 12° ‡ A 13.2: N 21/20
- 16652 Relationship between timber and cattle production on ponderosa pine range, Wild Bill Range; by Henry A. Pearson and Donald A. Jameson. 1967. [2]+10 p. il. 4° (Rocky Mountain Forest and Range Experiment Station.) ‡  
A 13.69/2: T 48
- 16653 Report of Chief of Forest Service, 1966. [Aug. 1967.] iii+56 p. 4° [Covers calendar year activities unless otherwise identified; records on fiscal year basis are so reported.] \* Paper, 35c. ● Item 80  
L.C. card Agr 12-394 A 13.1: 966
- Research note INT-(series). (Intermountain Forest & Range Experiment Station, Ogden, Utah.)
- 16654 INT-63. Tree characteristics influence 2 x 4 stud yield of lodgepole pine; [by] E. S. Kotok. 1967. 8 p. il. 4° ‡ A 13.79: INT-63

\*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

Research note PNW--(series). (Pacific Northwest Forest and Range Experiment Station, Portland, OR.) † A 13.79: PNW--(nos.)

- 16655 PNW-53. Elevation effects on rainfall near Hollis, Alaska [with list of literature cited]: by W. J. Walkotten and J. H. Patric. May 1967. 8 p. il. 4°
- 16656 PNW-57. Two simple, time-saving techniques for studies of soil micro-organisms: [by] J. L. Neal, Jr. [and others]. July 1967. 3 p. il. 4° [Text derived from two simple, time-saving techniques for studies of soil microbial populations and subsequent culture characterization, published in Soil Biology, Int. news bulletin, Comm. III Int. Soc. Soil Sci. no. 6, Dec. 1966.]

Research note PSW--(series). (Pacific Southwest Forest & Range Experiment Station, Berkeley, Calif.) † A 13.79: PSW--(nos.)

- 16657 PSW-140. Zectran fed orally to mice, cholinesterase levels in blood determined; [by] Jean Marie Lang, Raymond P. Miskus. 1967. 3 p. il. 4°
- 16658 PSW-141. Spread of dwarfmistletoe into Jeffrey pine plantation, trees infected after 22 years [with list of literature cited; by] Robert F. Scharpf, J. R. Parmeter, Jr. 1967. 6 p. il. 4°
- 16659 PSW-142. Wedge measures parallax separations on large-scale 70-mm. aerial photographs; [by] Steven L. Wert, Richard J. Myhre. 1967. 2 p. il. 4°
- 16660 PSW-144. Broadcast seeding ponderosa pine on Challenge Experimental Forest, progress report; [by] Dale O. Hall. 1967. 4 p. il. 4°

Research paper FPL--(series). (Forest Products Laboratory, Madison, Wis.)

- 16661 FPL-76. Appalachian hardwoods for pallets, laboratory evaluation; [by] R. S. Kurtenacker, T. B. Heebink, D. E. Dunmire]. July 1967, cover title. 20 p. il. 4° [Text on p. 2 of cover. Accompanied by abstract cards.] † A 13.78: FPL-76

Research paper PNW--(series). (Pacific Northwest Forest and Range Experiment Station.) † A 13.78: PNW--(nos.)

- 16662 PNW-43. Investigating dominance in Douglass-fir stands [with list of literature cited]; by Kenneth W. Krueger. Mar. 1967, cover title, [1]+10+[1] p. il. 4°
- 16663 PNW-44. Fluctuations in forage quality on summer range in Blue Mountains [with list of literature cited]; by Jon M. Skovlin. 1967, cover title, [1]+20+[1] p. il. 4°

Research paper PSW--(series). (Pacific Southwest Forest and Range Experiment Station, Berkeley, Calif.)

- 16664 PSW-40. Requirements for new housing in Hawaii, 1965-70, forecast; [by] John D. Zinnikas, R. Sidney Boone. 1967, cover title, [2]+6 p. il. 4° [Abstract cards inserted.] † A 13.78: PSW-40

Resource bulletin PSW--(series). (Pacific Southwest Forest and Range Experiment Station, Berkeley, Calif.)

- 16665 PSW-6. Plantation timber on Island of Kauai, 1965; [by] Nobuo Honda, Wesley H. C. Wong, Jr., [and] Robert E. Nelson. 1967, cover title, [2]+34 p. il. 4° [Prepared in cooperation with Division of Forestry, Department of Land and Natural Resources, Hawaii, Honolulu, Hawaii. Text on p. 2 of cover.] † A 13.80: PSW-6

Resource bulletin SO--(series). (Southern Forest Experiment Station, New Orleans, La.)

- 16666 SO-8. Forest industries in Appalachia counties of Tennessee; by Charles C. Van Sickle. 1967, cover title, [2]+21 p. il. 4° [Text on p. 2 of cover.] † A 13.80: SO-8

# GENERAL ACCOUNTING OFFICE Washington, D.C. 20548

- 16667 List of GAO publications. June 1967. [2]+26 p. narrow 8° † GA 1.16: P 96/967

- 16668 Report to Congress of United States: Government-wide review of administration of certain statutory and regulatory requirements relating to architect-engineer fees; by Comptroller General of United States. Apr. 1967. [7]+124 leaves, 4° † Paper, \$1.00. GA 1.13: Ar 2/3

- 16669 — Need for improved planning and surveillance of economic development projects in India, Agency for International Development, Department of State; by Comptroller General of United States. Sept. 1967, cover title, [4] leaves+53 p. 4° † Paper, \$1.00. L.C. card 67-62508 GA 1.13: In 2/10

## GOVERNMENT PUBLICATIONS

- 16670 Report to Congress of United States: Need for procedures to preclude more than just compensation in acquiring oil interests, Corps of Engineers (civil functions), Department of Army; by Comptroller General of United States. Sept. 1967. cover title, [3]+19 p. 4° † Paper, \$1.00.  
L.C. card 67-62661 GA 1.13: Oi 5/2
- 16671 — Opportunities for improvement in administration of contract for operation of National Center for Atmospheric Research, Boulder, Colo., National Science Foundation; by Comptroller General of United States. Sept. 1967. cover title, [4] leaves+45 p. il. 4° † Paper, \$1.00.  
L.C. card 67-62662 GA 1.13: At 6/2
- 16672 — Opportunities for savings through use of spare Government-owned communications circuits in Europe, Department of Defense; by Comptroller General of United States. Sept. 1967. cover title, [3] leaves+21 p. 4° † Paper, \$1.00.  
L.C. card 67-62506 GA 1.13: C 73/26
- 16673 — Opportunity for savings by adopting manufacturers' recommended preventive maintenance programs for interagency motor pool vehicles, General Services Administration; by Comptroller General of United States. Oct. 1967. cover title, [3] leaves+36 p. 4° † Paper, \$1.00.  
L.C. card 67-62683 GA 1.13: M 85/11
- 16674 — Procurement of nuclear submarine propulsion equipment under Public law 87-653, Department of Navy; by Comptroller General of United States. Aug. 1967. cover title, [3] leaves+27 p. 4° † Paper, \$1.00.  
L.C. card 67-62306 GA 1.13: N 88/10
- 16675 — Review of examination function of small business investment company programs, Small Business Administration; by Comptroller General of United States. Sept. 1967. cover title, [3] leaves+27 p. 4° † Paper, \$1.00.  
L.C. card 67-62671 GA 1.13: Sm 1/4
- 16676 — Review of inventory accounting systems for aeronautical equipment, Department of Navy; by Comptroller General of United States. Sept. 1967. cover title, [3] leaves+40 p. 4° † Paper, \$1.00.  
L.C. card 67-62663 GA 1.13: Ae 8/13
- 16677 — Review of projects in Colombia showing need for improvements in planning and supervision, Agency for International Development, Department of State; by Comptroller General of United States. Sept. 1967. cover title, [3] leaves+56 p. 4° † Paper, \$1.00.  
L.C. card 67-62507 GA 1.13: C 71/2
- 16678 — Savings available if Community Credit Corporation recovers interest costs on repaid price-support loans and on storage facility and equipment loans, Department of Agriculture; by Comptroller General of United States. Sept. 1967. cover title, [3] leaves+21 p. 4° † Paper, \$1.00.  
L.C. card 67-62505 GA 1.13: C 73/25

### GENERAL SERVICES ADMINISTRATION Washington, D.C. 20405

- 16679 Federal fire experience FY 1966. [Aug. 1966.] cover title, ii+6 p. il. 4° (Federal Fire Council.) [Condensed report. Text on p. 2 and 3 of cover.] † GS 1.14/2: 966

### GEOLOGICAL SURVEY, Interior Dept. Washington, D.C. 20405

- 16680 Annual peak discharge at selected gaging stations in Pacific Northwest, 1966-67. Sept. 7, 1967. 2 leaves, oblong 8° (Water Resources Division.) [Provisional, subject to revision. Issued with perforations.] †  
I 19.45/3: 966-67

Bulletins. ● Item 620

I 19.3: (nos.)

- 16681 1182. Contributions to economic geology, 1963 [title page and contents]. [1967.] [3] p. [This volume was published as separate chapters A-E.] †

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 16682 1216. Geology of Republic quadrangle and part of Arceus quadrangle, Ferry County, Wash. [with list of references cited]; by Siegfried Muessig. 1967. vi+135 p. il. 1 pl. in pocket. [Geology of area in northeastern Washington that contains important gold-silver deposits and major structural feature, Republic graben. Plate is colored.] \* Paper, \$1.25. L.C. card GS 67-178
- 16683 1231. Geology and ore deposits of Lawson-Dumont-Fall River district, Clear Creek County, Colo. [with list of references cited]; by C. C. Hawley and Frank Baker Moore. 1967. vi+92 p. il. 4 pl. in pocket. [Prepared on behalf of Atomic Energy Commission, Description of general geology and ore deposits of district which forms northwestern part of important Central City-Idaho Springs mineralized area. Some plates are colored.] \* Paper, \$2.00. L.C. card GS 67-265
- 16684 1241-F. Geology and petrology of Greenville quadrangle, Piscataquis and Somerset Counties, Maine [with list of references cited]; by G. H. Espen shade and E. L. Boudette. 1967. v+60 p. il. 1 pl. in pocket. [Description of metasedimentary, mafic, and granitic rocks of Paleozoic age. Contributions to general geology.] \* Paper, 65c.
- 16685 1241-G. Bedrock geology of Chepachet quadrangle, Providence County, R.I. [with list of references cited]; by Alonzo W. Quinn. 1967. iv+26 p. il. 1 pl. in pocket [Prepared in cooperation with State of Rhode Island Development Council. Contributions to general geology. Plate is colored.] \* Paper, 75c.
- 16686 1241 I. Debris flow and erosion control problems caused by ash eruptions of Irazú Volcano, Costa Rica [with list of references]; by Howard H. Waldron. 1967. iv+37+[3] p. il. 1 pl. in pocket. [Prepared in co-operation with Oficina de Defensa Civil and Oficina de Planificación de Costa Rica under auspices of International Development Agency, State Dept. Contributions to general geology. Includes title page and contents to bulletin 1241.] \* Paper, 55c.
- 16687 1252-D. Phosphate deposits [with list of references cited]; by V. E. McKelvey. 1967. iii+21 p. il. [Summary of salient features of geology of phosphate deposits, their origin, and distribution. Contributions to economic geology.] \* Paper, 15c.

Circulars. † ● Item 620-A

I 19.4/2: (nos.)

- 16688 544. Determination of gold in geologic materials by solvent extraction and atomic absorption spectrometry [with list of references]; by Claude Huffman, jr., K. D. Mensik, and L. B. Riley. 1967. iii+6 p. il. 4° L.C. card GS 67-305
- 16689 555. Bedded barite in East Northumberland Canyon, Nye County, Nev. [with list of references cited]; by D. R. Shawe, F. G. Poole, and D. A. Brobst. [1st and 2d printings 1967.] 1967. [2]+8 p. il. 4° L.C. card GS 67-306

- 16690 Hydrology of National Reactor Testing Station area, Idaho, annual progress report, 1965 [with selected references]; by J. T. Barraclough, W. E. Teasdale, and R. C. Jensen. Feb. 1967. x+107 p. il. 4° [Open file report. Prepared in cooperation with Atomic Energy Commission.] ‡

I 19.2: II 99/965

Professional papers. ● Item 624

I 19.16: (nos.)

- 16691 515. Paleotectonic investigations of Permian system in United States [with list of references cited]; by E. D. McKee and others. 1967. xiii+271 p. il. 6 pl. 1 tab. in pocket, large 4° [Includes title page and contents to Professional paper 515. Four plates are colored.] \* Paper, \$4.00. L.C. card GS 67-1944
- 16692 524-G. Gulf Series in subsurface in northern Florida and southern Georgia [with list of references cited]; by Paul L. Applin and Esther R. Applin. 1967. iii+35+[2] p. il. 8 pl. 7 are in pocket. [Stratigraphy structure, lithofacies, and micropaleontology of buried rocks of pre-Gulf surface, Atkinson Formation, and stratigraphic units of Austin, Taylor, and Navarro age. Shorter contributions to general geology.] \* Paper, \$2.25.
- 16693 552. Stratigraphy and regional tectonic implications of part of Upper Cretaceous and Tertiary rocks, east-central San Juan Basin, N. Mex. [with list of references]; by Elmer H. Baltz. 1967. iv+101 p. il. 4° [Prepared in cooperation with Jicarilla Apache Tribe. Issued in portfolio with 8 pl. One plate is colored.] \* Paper, \$5.25 L.C. card GS 67-221
- 16694 557. Geology of Connors Pass quadrangle, Schell Creek range, east-central Nevada [with list of references cited]; by Harald Drewes. 1967. iv+93 p. il. 3 pl. in pocket, 4° [Stratigraphy and structure of complexly deformed area in Basin and Range province, and evaluation of tectonic environment in which it was developed. Two plates are colored.] \* Paper, \$1.75. L.C. card GS 67-190
- 16695 562-B. Flume experiments on transport of coarse sand [with list of references]; by Garnett P. Williams. 1967. iv+31 p. il. 4° [Sediment transport in alluvial channels.] \* Paper, 30c.



# GOVERNMENT PUBLICATIONS

## Professional papers—Continued

- 16696 566. Younger Precambrian geology in southern Arizona [with list of references cited]; by Andrew F. Shride. 1967. iv+89 p. il. 4°. [Stratigraphic, lithologic, and structural features of younger Precambrian rocks of southern Arizona as basis for understanding their paleogeography and establishing their correlation.] \* Paper, 65c.  
L.C. card GS 67-238
- 16697 583-A. Some silicified Middle Ordovician brachiopods from Kentucky [with list of references]; by Robert B. Neuman. 1967. iii+14+[2] p. il. 2 pl. 4°. [Prepared in cooperation with Kentucky Geological Survey. Descriptions of 1 strophomenid and 4 enteletacean brachiopods. Contributions to Ordovician paleontology of Kentucky.] \* Paper, 30c.
- 16698 583-B. Calymenid and other Ordovician trilobites from Kentucky and Ohio [with list of references]; by Reuben James Ross, jr. 1967. iii+[2]+19 p. il. 5 pl. 4°. [Prepared in cooperation with Kentucky Geological Survey. Species of trilobites *Isotelus*, *Bathyrurus*?, *Proetidella*, *Gravicalymene*, *Flexicalymene*, and *Acidaspis* described from Middle and Upper Ordovician strata of Kentucky. Contributions to Ordovician paleontology of Kentucky.] \* Paper, 45c.
- 16699 593-A. Permian tethyan fusulinids from California [with list of references cited]; by Raymond C. Douglass. 1967. iii+13+[2] p. il. 6 pl. 4°. [Palinal evidence for existence of shallow seaway from Japan to California during Early Permian time. Contributions to paleontology.] \* Paper, 40c.

## Water-supply papers. ● Item 625

I 19.13: (nos.)

- 16700 1594-E. Artificial recharge through well tapping basalt aquifers at The Dalles, Oreg. [with list of references]; by B. L. Foxworthy and C. T. Bryant. 1967. iv+55 p. il. 1 pl. in pocket. [Prepared in cooperation with city of The Dalles. Artificial recharge of ground water.] \* Paper, 55c.
- 16701 1662-D. Specific yield, compilation of specific yields for various materials [with list of references cited]; by A. I. Johnson. 1967. v+74 p. il. [Prepared in cooperation with California Department of Water Resources. Hydrologic properties of earth materials.] \* Paper, 30c.
- 16702 1824. Ground-water levels in United States 1960-64: South-Central States [with lists of references; prepared by personnel of Water Resources Division]. 1967. v+152 p. il. [Prepared in cooperation with Arkansas, Louisiana, Oklahoma and Texas, and with other agencies.] \* Paper, 45c.  
L.C. card GS 63-159
- 16703 1829. Swatara Creek basin of southeastern Pennsylvania, evaluation of its hydrologic system [with list of selected references]; by Wilbur T. Stuart, William J. Schneider, and James W. Crooks. [1967.] vii+79 p. il. [Evaluation of water resources in area of rapidly growing population and industry. Issued in portfolio with 3 pl.] \* Paper, \$4.25.  
L.C. card GS 67-159
- 16704 1839-N. Hydrologic data for Oak Ridge area, Tenn. [with list of references]; by William M. McMaster. 1967. v+60 p. il. [Prepared in cooperation with Atomic Energy Commission. Contributions to hydrology of United States.] \* Paper, 25c.
- 16705 1841. Geology and ground water of Savannah River plant and vicinity, S.C. [with list of references]; by George E. Siple. 1967. vi+113 p. il. 6 pl. in pocket [Prepared in cooperation with Atomic Energy Commission.] \* Paper, \$1.75.  
L.C. card GS 67-215

## HEALTH, EDUCATION, AND WELFARE DEPARTMENT Washington, D.C. 20201

- 16706 Reference facts on health, education, and welfare. June 1967. iv+79 p. oblong 48° (Office of Assistant Secretary for Program Coordination.) [Includes Edge index on p. 4 of cover.] \* Paper, 30c. ● Item 445  
FS 1.2: H 34/6/967

## HOUSING AND URBAN DEVELOPMENT DEPARTMENT Washington, D.C. 20410

- 16707 Creative federalism in the city, address by Norman Beckman, Director, Office of Intergovernmental Relations and Urban Program Coordination, Department of Housing and Urban Development, before 65th annual conference of State Association of County Assessors of California and State Board of Equalization, Kona Kai Club, San Diego, Calif., Sept. 11, 1967. [1967.] [1]+16 p. 4° † HH 1.7: B 38

## HUD IP—(series).

- 16708 31. Financing home purchases and home improvements. [July 1967.] 16 p. narrow 8° (HUD consumer bulletin; Federal Housing Administration.) \* Paper, 10c. ● Item 582-G III 1.27: 31

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



HUD MP (series). ● Item 582-G

HH 1.28:(nos.)

- 16709 1. Building a better America. [June 1967.] 42+[2] p. il. 4° [Some illustrations are colored.] \* Paper, 65c.  
16710 50. 1966 Department of Housing and Urban Development honor awards for design excellence. [1967.] cover title, 36 p. il. oblong 8° †

HUD TS-(series).

- 16711 20. Plant relocation and core city worker, commuting and housing decisions of relocated workers, Boston experience, Jan. 1967 [with bibliography]; by Everett J. Burt, jr. [May 1967.] [6]+162+[8] p. il. 4° [Prepared under contract H-631 with Boston University.] \* Paper, \$1.00. ● Item 593-C L.C. card 67-82554 HH 1.31:20  
16712 Information for applicants, senior citizens house loan program. [1967.] cover title, [3]+15 p. il. 4° † ● Item 582 HH 1.2:Se 5/5  
16713 Let's urbanize conservation education, remarks of Dwight F. Rettie, director, Division of Land Development, Department of Housing and Urban Development, before 14th annual National Conservation Education Association conference, Southwest State College, Springfield, Mo., Aug. 23, 1967. [1967.] 6 p. 4° † HH 1.7:R 31  
16714 Metropolitan development and budgeting, step toward creative Federalism, remarks of Charles M. Haar, Assistant Secretary for Metropolitan Development, Department of Housing & Urban Development, at Columbia University, New York City, Sept. 21, 1967. [1967.] [1]+14 p. 4° † HH 1.7:H 11  
16715 Programs for better cities, address by Don Hummel, Assistant Secretary, Renewal and Housing Assistance, Department of Housing and Urban Development, to League of Kansas Municipalities, Hutchinson, Kans., Sept. 26, 1967. 1967. [1]+6 p. 4° † HH 1.7:H 88/3  
16716 Rediscovery of American city, address by Robert C. Wood, Under Secretary, Department of Housing and Urban Development, MIT Alumni seminar, 1967, Cambridge, Mass., Sept. 8, 1967. [1967.] 20 p. 4° † HH 1.7:W 85/2

INTERIOR DEPARTMENT  
Washington, D.C. 20240

NOTE.—Requests to the Interior Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 16717 The Potomac, report on its imperiled future and guide for its orderly development, prepared by Potomac Planning Task Force, assembled by American Institute of Architects; with introduction by Stewart L. Udall. 1967. 103 p. il. 4° [Dust cover furnished by American Institute of Architects.] \* Cloth, \$5.00. ● Item 603 I 1.2:P 84/3  
L.C. card 67-22805  
[Saline water] research and development progress report.  
16718 254. 3d annual report, brackish water conversion demonstration plant no. 4, Roswell, N. Mex., [July 1, 1965-June 30, 1966], [with bibliography]; by American Hydrotherm Corporation, N.Y. Mar. 1967. [8]+135+vi+[2] p. il. 1 pl. 4° ([Contract 14-01-0001-322.]) [Series indicated on title page as Saline water conversion progress report.] \* Paper, \$1.00. ● Item 604-A-1 I 1.88:254  
16719 Strategy for clean water, remarks of Frank C. DiLuzio, Assistant Secretary of Interior for Water Pollution Control, to American Society of Civil Engineers, New York, N.Y., Oct. 16, 1967. [1967.] 12 leaves, 4° † I 1.68:D 58/3

INTERNAL REVENUE SERVICE, Treasury Dept.  
Washington, D.C. 20224

- 16720 Description of available forms relating to Alcohol & Tobacco Tax Division activities. May 1967, cover title, ii+12+[1] p. il. 4° (Pub. 480 (5-67).) \* Paper, 15c. ● Item 956 T 22.2:A1 1/4

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

- 16721 Defection and investigation of attempted criminal violations of tax laws. [Revised edition.] [1967.] [6] p. il. 4° (Document 5490 (Rev. 2-67).) † ● Item 956 T 22.2: V 81/967
- 16722 Internal revenue bulletin index-digest quarterly system: Service 1, Tax matters other than alcohol, tobacco, and firearms, 1965-66, transmittal 8; Mar. 22, 1967. [1967.] [497 p.] (Document 5378.) [Consists of Finding list and Digests for all matters of permanent nature, other than alcohol, tobacco, and firearms taxes, published in Internal revenue bulletin during 1965 and 1966. Issued in looseleaf form.] \* Paper, \$1.75. T 22.25/3: trans.8
- 16723 Looseleaf regulations system: Service 1, Income tax, transmittal 97. Aug. 25, 1967. [39] p. 4° ● Item 961 T 22.19/3: 1/trans.97
- NOTE.—Service 1 consists of pts. 1, 2, 18, and 19 of title 26 of Code of Federal regulations. It is sold on a subscription basis by the Superintendent of Documents, \$16.00 (including basic material and supplements issued irregularly for approximately 3 years); \$4.00 additional for foreign mailing.
- 16724 Tobacco tax guide, transmittal 19; Aug. 31, 1967. [1967.] [47] p. il. 4° (Publication 461.) [Issued in looseleaf form.] \* Paper, \$3.50 (including basic guide and supplementary material for an indefinite period); \$1.00 additional for foreign mailing. ● Item 956-A T 22.19/5: 964/trans.19

## INTERNATIONAL DEVELOPMENT AGENCY, State Dept. Washington, D.C. 20523

- 16725 Financial summary, foreign economic assistance [as of] May 31, 1967. [July 11, 1967.] cover title, i+17 p. oblong 8° (W-210; Office of Controller.) † S 18.2: F 76/6

## INTERSTATE COMMERCE COMMISSION Washington, D.C. 20423

- 16726 Cost of transporting freight by class 1 and class 2 motor common carriers of general commodities by regions or territories, 1966. Sept. 1967. cover title, [1]+vi+195 p. 4° (Statement 8-67; Bureau of Accounts.) [This study, issued as information, has not been adopted by Interstate Commerce Commission.] \* Paper, \$1.00. ● Item 682-A IC 1 acco.2: F 88/16/966
- 16727 Decisions of Interstate Commerce Commission, Feb.-Sept. 1965. 1967. xxiii +899 p. (Interstate Commerce Commission reports, v. 325.) \* Cloth, \$4.25. ● Item 677 IC 1.6: 325  
L.C. card 8-30656
- 16728 Schedule of annual indices for carriers by railroad, 1914-65 [revised pages for year 1966]. [41] p. il. 4° (Bureau of Accounts.) † IC 1 acco.2: R 13/6/966 rev. pages
- 16729 Transport statistics in United States, 78th annual report on transport statistics for year ended Dec. 31, 1964; prepared by Bureau of Accounts. [Issued in sections and parts punched for binders. This 1964 report when completed will consist of pts. 1, 4, 5, 6, 7, 8, and 9.] \* Paper, subscription, \$5.00 for all parts of one year's report; \$1.25 additional for foreign mailing. ● Item 699  
L.C. card 5-11209  
pt. 5. Carriers by water [release 2]. [1967.] [23] p. 4° IC 1.25: 964/pt.5/release 2

## JOINT CHIEFS OF STAFF, Defense Dept. Washington, D.C. 20301

JCS pub. (series).

- 16730 2. Unified action Armed Forces (UNAAF). [Change 10]. [1967.] [11] p. 4° [Issued in looseleaf form.] † ● Item 315-C D 5.12: 2/ch.10

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

- 16731 National security management: Defense transportation, Military Traffic Management and Terminal Service; by Arnold E. Ostrom. 1967. v+74 p. il. ([Monograph series]; Industrial College of Armed Forces.) ‡  
● Item 315-B D 5.9/4: T 68

JOINT PUBLICATIONS RESEARCH SERVICE  
Washington, D.C. 20443

NOTE.—Titles of JPRS serial reports listed below were issued during the month, but were not cataloged separately.

- 16732-1 Communist China digest, no. 189; JPRS 42503.  
16732-2 Communist Chinese scientific abstracts: Agricultural science and technology, nos. 51-62; JPRS 42484, 42495, 42501, 42524, 42545, 42546, 42637, 42668, 42681, 42695, 42809, 42829.  
16732-3 Communist Chinese scientific abstracts: Bio-medical sciences, nos. 240-254; JPRS 42478, 42523, 42557, 42569, 42589, 42594, 42598, 42640, 42667, 42680, 42723, 42735, 42749, 42751, 42832.  
16732-4 Communist Chinese scientific abstracts: Chemistry, nos. 85-86; JPRS 42500, 42570.  
16732-5 Communist Chinese scientific abstracts: Earth sciences, nos. 121-124; JPRS 42494, 42724, 42761, 42795.  
16732-6 Communist Chinese scientific abstracts: General science, nos. 39-43; JPRS 42496, 42502, 42599, 42620, 42669.  
16732-7 East European scientific abstracts: Bio-medical sciences, nos. 82-85; JPRS 42477, 42593, 42693, 42821.  
16732-8 East European scientific abstracts: Chemistry, no. 93; JPRS 42684.  
16732-9 East European scientific abstracts: Cybernetics, computers, and automation technology, nos. 29-31; JPRS 42611, 42784, 42822.  
16732-10 East European scientific abstracts: Earth sciences, no. 59; JPRS 42685.  
16732-11 East European scientific abstracts: Electronics and electrical engineering, nos. 38-39; JPRS 42768, 42823.  
16732-12 East European scientific abstracts: Engineering and equipment, nos. 36-38; JPRS 42480, 42715, 42824.  
16732-13 East European scientific abstracts: Materials science and metallurgy, nos. 16-17; JPRS 42482, 42769.  
16732-14 East European scientific abstracts: Physics and mathematics, nos. 83-84; JPRS 42508, 42785.  
16732-15 Economic and geographic translations on Latin America, nos. 90-92; JPRS 42504, 42641, 42673.  
16732-16 Epidemiology reports from the world press, no. 22; JPRS 42790.  
16732-17 Index of La Stampa and La Stampa sera, nos. 382-385; JPRS 42498, 42576, 42698, 42766.  
16732-18 Index of Le Monde, nos. 86-87; JPRS 42697, 42812.  
16732-19 Military information on Eastern Europe, nos. 169-171; JPRS 42489, 42521, 42626.  
16732-20 Political translations on Eastern Europe, nos. 289-296; JPRS 42509, 42580, 42619, 42716, 42746, 42774, 42789, 42825.  
16732-21 Press information report on Albania, nos. 226-229; JPRS 42573, 42614, 42694, 42759.  
16732-22 Press information report on Iran, nos. 30-31; JPRS 42535, 42672.  
16732-23 Sociological translations on Eastern Europe, nos. 467-472; JPRS 42510, 42615, 42659, 42705, 42717, 42826.  
16732-24 Soviet military translations, no. 399; JPRS 42811.  
16732-25 Space biology and medicine, v. 1, nos. 2-3; JPRS 42635, 42730.  
16732-26 Translations from Hoc tap (Studies), North Vietnam, no. 7, 1967; JPRS 42718.  
16732-27 Translations from Hung-ch'i (Red flag), no. 66; JPRS 42678.  
16732-28 Translations from Kommunist, no. 11, 1967; JPRS 42702.  
16732-29 Translations on Africa, nos. 650-641; JPRS 42483, 42534, 42559, 42591, 42596, 42664, 42682, 42725, 42745, 42801, 42810, 42831.  
16732-30 Translations on Communist China: Economic, no. 32; JPRS 42830.  
16732-31 Translations on Communist China: Political and sociological, nos. 422-423; JPRS 42525, 42558.  
16732-32 Translations on Cuba, nos. 616-624; JPRS 42499, 42549, 42608, 42622, 42677, 42741, 42753, 42775, 42792.  
16732-33 Translations on East European agriculture, forestry, and food industries, nos. 582-591; JPRS 42490, 42531, 42574, 42616, 42638, 42706, 42742, 42760, 42786, 42807.  
16732-34 Translations on East European electronic and precision equipment industries, nos. 18-19; JPRS 42479, 42720.  
16732-35 Translations on East European foreign trade, nos. 355-361; JPRS 42511, 42522, 42627, 42719, 42734, 42747, 42787.  
16732-36 Translations on East European machinery industries, nos. 34-36; JPRS 42516, 42584, 42743.  
16732-37 Translations on East European materials industries, nos. 389-397; JPRS 42486, 42491, 42512, 42555, 42639, 42660, 42666, 42748, 42827.  
16732-38 Translations on East European service industries, nos. 559-566; JPRS 42513, 42550, 42618, 42686, 42708, 42739, 42794, 42808.  
16732-39 Translations on economic organization and management in Eastern Europe, nos. 735-748; JPRS 42492, 42493, 42515, 42532, 42577, 42601, 42617, 42661, 42687, 42704, 42731, 42740, 42770, 42828.  
16732-40 Translations on international Communist developments, nos. 995-997; JPRS 42585, 42663, 42736.

# GOVERNMENT PUBLICATIONS

## JPRS reports—Continued

- 16732-41 Translations on Mongolia, nos. 145-147; JPRS 42590, 42737, 42833.
- 16732-42 Translations on Near East, nos. 187-199; JPRS 42497, 42575, 42592, 42621, 42643, 42662, 42670, 42721, 42744, 42765, 42786, 42797, 42835.
- 16732-43 Translations on North Korea, nos. 56-58; JPRS 42548, 42571, 42629.
- 16732-44 Translations on North Vietnam, nos. 241-256; JPRS 42485, 42526, 42533, 42547, 42572, 42595, 42600, 42612, 42630, 42642, 42676, 42696, 42726, 42750, 42752, 42791.
- 16732-45 Translations on south and east Asia, nos. 166-169; JPRS 42578, 42707, 42729, 42834.
- 16732-46 Translations on Soviet education, nos. 71-72; JPRS 42655, 42820.
- 16732-47 Translations on Soviet public health, USSR, no. 8, 1967; JPRS 42819.
- 16732-48 Translations on USSR agriculture, nos. 220-221; JPRS 42647, 42799.
- 16732-49 Translations on USSR communications, nos. 88-89; JPRS 42757, 42815.
- 16732-50 Translations on USSR consumer goods and domestic trade, nos. 195-198; JPRS 42517, 42633, 42703, 42762.
- 16732-51 Translations on USSR fishing industry and marine resources, no. 7; JPRS 42556.
- 16732-52 Translations on USSR labor, nos. 202-206; JPRS 42544, 42551, 42646, 42798, 42806.
- 16732-53 Translations on USSR transportation, nos. 195-197; JPRS 42552, 42648, 42788.
- 16732-54 USSR economy and industry: General information, nos. 156-170; JPRS 42487, 42527, 42602, 42604, 42605, 42613, 42623, 42632, 42656, 42665, 42679, 42732, 42793, 42813, 42814.
- 16732-55 USSR industrial development: Automotive and tractor industry, nos. 58-61; JPRS 42518, 42649, 42779, 42816.
- 16732-56 USSR industrial development: Chemical industry and machinery, nos. 59-60; JPRS 42650, 42763.
- 16732-57 USSR industrial development: Construction, construction machinery, and building materials, nos. 103-108; JPRS 42519, 42528, 42568, 42644, 42651, 42764.
- 16732-58 USSR industrial development: Electric power, fuels and related equipment, nos. 67-72; JPRS 42520, 42553, 42603, 42624, 42652, 42733.
- 16732-59 USSR industrial development: Electronics and precision equipment, nos. 30-31; JPRS 42653, 42817.
- 16732-60 USSR industrial development: Metallurgy and minerals, nos. 65-70; JPRS 42529, 42606, 42654, 42758, 42773, 42818.
- 16732-61 USSR industrial development: Metal-working equipment, no. 218; JPRS 42657.
- 16732-62 USSR international economic relations, nos. 102-104; JPRS 42530, 42738, 42800.
- 16732-63 USSR scientific abstracts: Bio-medical science, nos. 46-48; JPRS 42609, 42658, 42683.
- 16732-64 USSR scientific abstracts: Chemistry, no. 45; JPRS 42581.
- 16732-65 USSR scientific abstracts: Cybernetics, computers, and automation technology, nos. 46-47; JPRS 42582, 42722.
- 16732-66 USSR scientific abstracts: Electronics and electrical engineering, nos. 81-82; JPRS 42506, 42771.
- 16732-67 USSR scientific abstracts: Engineering and equipment, nos. 49-54; JPRS 42507, 42583, 42610, 42713, 42767, 42783.
- 16732-68 USSR scientific abstracts: Materials science and metallurgy, no. 40; JPRS 42714.
- 16732-69 USSR scientific abstracts: Physics and mathematics, nos. 119-122; JPRS 42488, 42554, 42579, 42588.
- 16732-70 Vestnik of the USSR Academy of Medical Sciences, nos. 7-8, 1967; JPRS 42505, 42634.
- 16732-71 Vestnik of USSR Academy of Sciences, v. 37, nos. 4, 6; JPRS 42514, 42671.

## JPRS (series).

Y 3.J 66: 13/(nos.)

- 16733 42276. Selective inhibition of nonspecific cholinesterase by some 0,0-diethyl-S-alkylthiophosphates, USSR [with bibliography]; by N. N. Golovnikov et al, errata; Oct. 18, 1967. Aug. 21, 1967. [2] p. +5 leaves. 4° [From Doklady Akademii Nauk SSSR, v. 174, no. 3, 1967. Supersedes previous version, which should be destroyed.]  $\Phi$  Paper, \$3.00 (TT: 67-32905).
- 16734 42536. Economic computations according to model of expanded reproduction, USSR; by V. Dadayan. Sept. 11, 1967. [2] + a-e + 157 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-33164).
- 16735 42537. Applied mathematics, computers, and information models, USSR [articles]; by N. Molisev et al. Sept. 11, 1967. [2] + a + 31 p. il. 4° [From Nauka i zhizn', no. 7, July 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33165).
- 16736 42538. Chinese cultural revolution as seen by Alberto Moravia, Communist China. Sept. 11, 1967. [2] + 20 p. 4° [From Corriere della sera, July 2-9, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33166).
- 16737 42539. Temperature dependence of dielectric constant of micamuscovite at frequencies of 50 cycles/sec to 1 MC/sec. USSR [with list of references cited]; by A. V. Mal'tsev, et al. Sept. 11, 1967. [2] + 8 p. il. 4° [From Uchenyye zapiski Leningradskogo Pedagogicheskogo Instituta, v. 207, 1961.]  $\Phi$  Paper, \$3.00 (TT: 67-33167).
- 16738 42540. Test airfield of Soviet air forces, USSR; by G. Kudryatseva. Sept. 11, 1967. [2] + 11 p. 4° [From Pravda Ukrainy, Jan. 19-22, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33168).
- 16739 42541. Current status of catalysis research in Hungary; by Zoltan Szabo. Sept. 11, 1967. [2] + 6 p. 4° [From Magyar Kemikusok Lapja, v. 22, no. 7, July 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33169).
- 16740 42542. Three-dimensional calculation of fuel burn-up in water-cooled, water-moderated power reactors [with bibliography]; by A. N. Novikov, et al. Sept. 11, 1967. [2] + 19 p. il. 4° [From Panel on fuel burn-up pre-

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- ditions in thermal reactors, Vienna, Apr. 10-14, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33170).
- 16741 42543. Study of organism reactivity to disease development, USSR [excerpts, with bibliography]. Sept. 11, 1967. [2]+a+59 p. il. 4<sup>o</sup> [From *Obshcheye ucheniye o bolezni. Rezistentnost' i reaktivnost' organizma, Tom 1, Mnogotomnoye rukovodstvo po patologicheskoy fiziologii.*]  $\Phi$  Paper, \$3.00 (TT: 67-33171).
- 16742 42560. Synthesis of automatic frequency control systems responding to Doppler frequency shift, USSR [with bibliography]; by V. N. Kuleshov, et al. Sept. 12, 1967. [2]+16 p. il. 4<sup>o</sup> [From *Radiotekhnika*, v. 22, no. 5, May 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33188).
- 16743 42561. Thermal decomposition of uranium oxides in vacuum, USSR [with bibliography]; by I. I. Kozhina, et al. Sept. 12, 1967. [2]+13 p. il. 4<sup>o</sup> [From *Vestnik Leningradskogo universiteta*, no. 10, May 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33189).
- 16744 42562. Interaction of solids colliding at high speeds, USSR [with bibliography]; by V. S. Lenskiy. Sept. 12, 1967. [2]+49 p. il. 4<sup>o</sup> [From *Materialy Vsesoyuznogo Simpoziuma po rasprostraneniyu uprugoplasticheskikh voln v sploshnykh sredakh*, 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-33190).
- 16745 42563. Problems in financing scientific research work, USSR; by M. Bashin. Sept. 12, 1967. [2]+8 p. 4<sup>o</sup> [From *Ekonomicheskaya gazeta*, no. 30, July 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33191).
- 16746 42564. VUZ students urged to use economic approach toward scientific research, USSR; by N. Bogoroditskiy. Sept. 12, 1967. [2] p.+4 leaves, 4<sup>o</sup> [From *Izvestiya*, June 14, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33192).
- 16747 42565. Disposal of radioactive waste, USSR [papers, with bibliographies]. Sept. 12, 1967. [2]+a-b+109 p. il. 4<sup>o</sup> [Presented at Simpozium po udaleniyu radioaktivnykh otkhodov v zemlyu (mezhdunarodnoye energii), Vienna, May 29-June 2, 1961.]  $\Phi$  Paper, \$3.00 (TT: 67-33193).
- 16748 42566. Cold plasma, plasmatron principles and uses, USSR; by I. Lunacharskaya, et al. Sept. 12, 1967. [2]+14 p. il. 4<sup>o</sup> [From *Nauka i zhizn*, no. 7, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33194).
- 16749 42567. Solar winds and interplanetary magnetic fields, USSR; by E. R. Mustel'. Sept. 12, 1967. [2]+20 p. il. 4<sup>o</sup> [From *Priroda*, no. 7, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33195).
- 16750 42586. World status of plant-protecting agent industry and research with special reference to Hungarian conditions; by Bela Raskai. Sept. 13, 1967. [2]+12 p. 4<sup>o</sup> [From *Magyar kemikusok lapja*, no. 10-11, 1964.]  $\Phi$  Paper, \$3.00 (TT: 67-33214).
- 16751 42587. New developments in solid-state physics, Hungary. Sept. 13, 1967. [2] p.+3 leaves, 4<sup>o</sup> [From *Muszaki elet*, v. 22, no. 15, July 27, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33215).
- 16752 42597. Studies in training of industrial workers and in scientific organization of work, USSR [articles]. Sept. 14, 1967. [2]+a+31 p. 4<sup>o</sup> [From *Sotsialisticheskiy trud*, no. 6, July 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33225).
- 16753 42607. Report on Soviet symposium on Man-machine problem, USSR; by V. F. Rubakhin. Sept. 14, 1967. [2]+6 p. 4<sup>o</sup> [From *Voprosy psikhologii*, no. 3, May-June 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33235).
- 16754 42625. Meteorology and hydrology, no. 7, July 1967, USSR [articles with bibliographies]. Sept. 18, 1967. [2]+a-c+177 p. il. 4<sup>o</sup>  $\Phi$  Paper, \$3.00 (TT: 67-33253).
- 16755 42628. Properties of some ceramic and insulating materials, USSR [articles, with bibliographies]. Sept. 18, 1967. [2]+a+42 p. il. 4<sup>o</sup>  $\Phi$  Paper, \$3.00 (TT: 67-33256).
- 16756 42631. Military schools adopt programmed teaching methods, USSR; by P. A. Rotmistrov. Sept. 18, 1967. [2]+6 p. 4<sup>o</sup> [From *Vestnik vysshey shkoly*, no. 6, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33259).
- 16757 42636. Meteorology and hydrology, no. 6, July 1967, USSR [articles with bibliographies]. Sept. 18, 1967. [2]+a-b+106 p. il. 4<sup>o</sup>  $\Phi$  Paper, \$3.00 (TT: 67-33264).
- 16758 42645. Status and perspectives of Bulgarian physics; by A. Aleksandrov. Sept. 18, 1967. [2] p.+4 leaves, 4<sup>o</sup> [From *Zemledelsko zname*, Aug. 19, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33273).
- 16759 42675. Scientific management and democracy; by V. A. Shubin. Sept. 19, 1967. [2]+10 p. 4<sup>o</sup> [From *Vestnik Leningradskogo Universiteta. Ekonomika, filosofiya, pravo*, no. 1, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33302).
- 16760 42688. Notes on aquatics, USSR [articles]. Sept. 20, 1967. [2]+a+27 p. il. 4<sup>o</sup> [From *Biblioteka sportmena-podvodnika*, no. 16, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33315).
- 16761 42689. Gnotobiology in Czechoslovakia; by Leosh Mandel', et al. Sept. 20, 1967. [2] p.+4 leaves, 4<sup>o</sup> [From *Priroda*, no. 7, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33316).
- 16762 42690. Prospects for automatic guidance of automobiles, USSR; by A. Rakin. Sept. 20, 1967. [2]+6 p. il. 4<sup>o</sup> [From *Nauchno-tehnicheskoye obshchestvo*, no. 4, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33317).
- 16763 42691. Creative quest in science, USSR. Sept. 20, 1967. [2] p.+3 leaves, 4<sup>o</sup> [From *Pravda*, Aug. 16, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33318).
- 16764 42692. Recruitment of potential scientists, USSR; by V. Ambartsumyan. Sept. 20, 1967. [2] p.+4 leaves, 4<sup>o</sup> [From *Pravda*, Aug. 17, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33319).

## JPRS (series)—Continued

- 16765 42699. Observation of distant man-made space objects, USSR; by P. P. Dobronravlin. Sept. 21, 1967. [2] p.+5 leaves, il. 4° [From Proceedings of International Astronautical Congress, 15th 1964, v. 11, Satellite systems, 1965.]  $\Phi$  Paper, \$3.00 (TT: 67-33326).
- 16766 42700. Physiological basis of methods of increasing labor productivity, USSR [excerpts; by S. A. Kostlov]. Sept. 21, 1967. [2]+a+50 p. il. 4° [Includes Introduction and table of contents.]  $\Phi$  Paper, \$3.00 (TT: 67-33327).
- 16767 42701. Contributions of scientists in hygiene, physiology, and scientific organization of labor, USSR; by A. Shchitskova, et al. Sept. 21, 1967. [2] p.+4 leaves 4° [From Meditsinskaya gazeta, Aug. 4, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33328).
- 16768 42709. Possibilities and prospects of use of hypothermia in exploration of space, USSR [with bibliography]; by P. V. Byeloshyts'kyy, et al. Sept. 21, 1967. [2]+10 p. il. 4° [From Fiziologicheskyy zhurnal, v. 13, no. 4, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33336).
- 16769 42710. Seismicity of Yakutiya, USSR [with bibliography]; by V. M. Kochetkov. Sept. 21, 1967. [2]+a-b+95 p. il. 4° [Moscow, Nauka Publishing House, 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-33337).
- 16770 42711. Atoms for sale, visit to USSR isotope center; by K. Kostin. Sept. 21, 1967. [2] p.+5 leaves 4° [From Ogonek, no. 27, July 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33338).
- 16771 42712. Soviet motion picture, July rain, reviewed, USSR. Sept. 21, 1967. [2] p.+5 leaves 4° [From Sovetskaya kultura, no. 102, Aug. 29, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33339).
- 16772 42727. Conditions of maximum sensitivity of magnetometer based on optical orientation of atoms, USSR [with bibliography]; by G. P. Nedovodiyev, et al. Sept. 22, 1967. [2] p.+3 leaves il. 4° [From Geofizicheskaya apparatura, no. 26, 1965.]  $\Phi$  Paper, \$3.00 (TT: 67-33354).
- 16773 42728. Soviet research and personnel training in bionics, USSR; by N. P. Naumov, et al. Sept. 22, 1967. [2]+7 p. 4° [From Vestnik vysshey shkoly, no. 7, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33355).
- 16774 42754. Recent developments in research on psychopharmacologic and psychotomimetic drugs in Czechoslovakia [articles]. Sept. 26, 1967. [2]+a+15 p. il. 4° [From Activitas nervosa superior, v. 6, no. 2, 1964.]  $\Phi$  Paper, \$3.00 (TT: 67-33381).
- 16775 42755. Early training in reading essential, USSR; by D. Leshchinskiy. Sept. 26, 1967. [2] p.+3 leaves, 4° [From Pravda, Aug. 9, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33382).
- 16776 42756. Scientific organization of labor in higher education, USSR [articles]. Sept. 26, 1967. [2]+32 p. 4° [From Vestnik vysshey shkoly, no. 7, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33383).
- 16777 42772. Deserts of central Asia, Hohsi Corridor, Tsaidam and Tarim Basin [with bibliography]; by M. P. Petrov. Sept. 26, 1967. [2]+a-c+420 p. il. 4° [Science Publishing House, Leningrad, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33399).
- 16778 42776. Reports on medical and biological research from Priroda, USSR. Sept. 27, 1967. [2]+a+55 p. il. 4° [From issue no. 6, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33403).
- 16779 44777. Subjects for research on philosophical problems of natural science, USSR [lists]. Sept. 27, 1967. [2]+29 p. 4° [From Filosofskiy nauki, no. 3, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33404).
- 16780 42778. Great leap backward, Soviet view of China's economic problems; by A. Khan'kovskiy. Sept. 27, 1967. [2]+6 p. 4° [From Literaturnaya gazeta, no. 36, Sept. 6, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33405).
- 16781 42780. Pride, a tale of mountain life in Ukraine, USSR; by Yaroslav Stupak. Sept. 27, 1967. [4]+12 p. 4° [From Vitchyzna, no. 12, Dec. 1966. Errata, replaces JPRS 42162 which should be destroyed.]  $\Phi$  Paper, \$3.00 (TT: 67-33407).
- 16782 42871. Improving calibre of engineering personnel, USSR; by G. Khlmich, et al. Sept. 27, 1967. [2] p.+5 leaves, 4° [From Izvestiya, July 20, 1967. Originally entitled: They stand side by side.]  $\Phi$  Paper, \$3.00 (TT: 67-33408).
- 16783 42782. Experimental research in psychology, USSR [articles, with bibliographies]. Sept. 27, 1967. [2]+a+64 p. il. 4° [From Voprosy psikhologii, no. 2, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33409).
- 16784 42802. Mathematical problems of cybernetics and computer engineering, USSR [articles, with bibliography]. Sept. 28, 1967. [2]+a+43 p. 4° [From Trudy vychislitel'nogo Tsentra Akademii Nauk Armyanskoy SSR i Yerevanskogo Gosudarstvennogo Universiteta, III, Matematicheskiye voprosy kibernetiki i vychislitel'noy tekhniki, modelirovaniye protsessov upravleniya.]  $\Phi$  Paper, \$3.00 (TT: 67-33429).
- 16785 42803. Newly elected members of Department of Biological Sciences of Tadzhik Academy of Sciences, USSR. Sept. 28, 1967. [2] p.+3 leaves, 4° [From Izvestiya Akademii Nauk Tadzhikskoy SSR, no. 1, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33430).
- 16786 42804. Cost accounting in scientific research institute, USSR. Sept. 28, 1967. [2] p.+5 leaves, 4° [From Ekonomicheskaya gazeta, no. 35, Aug. 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33431).
- 16787 42805. Sociological problems of development of science and technology (review of new literature); by V. I. Belozertsev et al. Sept. 28, 1967. [2]+13 p. 4° [From Filosofskiy nauki, no. 4, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33432).

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

JUSTICE DEPARTMENT  
Washington, D.C. 20530

- 16788 1st National Conference on Crime Control, proceedings, Mar. 28-29, 1967 [Washington, D.C.] [1967.] viii+161 p. il. [Includes list of publications of President's Commission on Law Enforcement and Administration of Justice.] \* Paper, 60c. ● Item 717  
L.C. card 67-62731 J 1.2: C 86/8/967
- Opinion of Attorney General [Volume 42, Opinion].
- 16789 27. Johnson act, export sales to countries in default in payment of their obligations to United States; May 9, 1967. [1967.] 6 p. \* Paper, 5c.  
J 1.5/a: 42/27
- 16790 Report of Attorney General to Congress of United States on administration of Foreign agents registration act of 1938, as amended, for calendar year 1966. [1967.] cover title, [1]+225 p. 4° \* Paper, \$1.25. ● Item 719-C  
L.C. card 45-36591 J 1.30: 966

LABOR DEPARTMENT  
Washington, D.C. 20210

- Department of Labor program reports. † L 1.57: (nos.)
- 16791 1. Operation Late Start, how on-the-job training gives new hope to older workers. [1967.] [13] p. il. 4°
- 16792 3. Training and technology in Tennessee, new skills for underemployed. [1]+8 p. il. 4°
- Manpower/automation research monograph.
- 16793 6. Negroes in apprenticeship; [prepared in Office of Manpower Policy Evaluation, and Research]. Aug. 1967. v+38 p. 4° (Manpower Administration.) †  
● Item 746-H  
L.C. card 67-62559 L 1.39/3: 6
- 16794 Manpower projections, appraisal and plan of action, report of working group on manpower projections in President's Committee on Manpower. Aug. 1967. [1]+58 p. 4° (Manpower Administration; [Office of Manpower Policy, Evaluation, and Research].) † ● Item 745  
L.C. card 67-62743 L 1.2: M 31/41
- 16795 Manpower research institutional grant program, progress report for July 1, 1966-June 30, 1967; [prepared by Jane R. Chapman]. Aug. 1967. [3]+17 p. 4° ([Office of Manpower Policy, Evaluation, and Research, Manpower Administration.]) † ● Item 745 L 1.2: M 31/43/966-67
- 16796 Remarks by Ester Peterson, Assistant Secretary of Labor, before Bank Public Relations and Marketing Association, Denver, Colo., Oct. 10, 1967. [1967.] 13 leaves, 4° †  
L 1.13: P 44/9

LABOR STANDARDS BUREAU, Labor Dept.  
Washington, D.C. 20210

Bulletin.

- 16797 301. Safety in industry, instructor outline, Department of Labor safety training programs: Consultative approach for safety promotion; [developed by staff of office of Occupational Safety and International Division]. [1967.] cover title, ix+19 p. il. 4° [Text on p. 2 of cover.] \* Paper, 25c.  
● Item 763 L 16.3: 301
- Occupational safety aids, Department of Labor safety training programs  
OSA LS-(series). ● Item 765-G L 16.49: (nos.)
- 16798 162. Accident causes. [1967.] [8] p. il. 4° (OOS 7.67.) \* Paper, 10c.
- 16799 163. Conducting job hazard analysis. [1967.] [8] p. il. 4° (7.67.) \* Paper, 10c.
- 16800 164. Elements of safety program. [1967.] [12] p. il. 4° (7.67.) \* Paper, 15c.
- 16801 166. Good housekeeping for successful safety program. [1967.] [8] p. il. 4° (7.67.) \* Paper, 10c.
- 16802 169. How to investigate accidents. [1967.] [8] p. il. 4° (OOS 7.67.) \* Paper, 10c.
- 16803 170. Inspecting for safety. [1967.] [8] p. il. 4° (OOS 7.67.) \* Paper, 10c.
- 16804 173. Promoting worker interest. [1967.] [8] p. il. 4° (7.67.) \* Paper, 10c.
- 16805 174. Recording employee injuries. [1967.] 8 p. il. 4° (OOS 7.67.) \* Paper, 10c.
- 16806 177. Safety committee activities. [1967.] [8] p. il. 4° (OOS 7.67.) \* Paper, 10c.
- 16807 180. Safety training techniques in the classroom. [1967.] [8] p. il. 4° (OOS 7.67.) \* Paper, 10c.

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

## Occupational safety aids—Continued

- 16808 181. Supervisory responsibility for safety. [1967.] [8] p. il. 4° (OOS 7.67.)  
\* Paper, 10c.
- 16809 182. Development of safety movement; industrial revolution, early legislation,  
safety leadership. [1967.] [8] p. il. 4° (7.67.) \* Paper, 10c.

## Off the job safety, Department of Labor safety programs OJS LS—(series).

- 16810 432 Fire prevention. [1967.] 1 p. il. 4° (OOS-11.66.) † L 16.51/9:432
- 16811 Summary of State laws prohibiting or regulating business of debt pooling.  
July 1967. cover title, 13 p. 4° † L 16.2: D 35

## LABOR STATISTICS BUREAU, Labor Dept. Washington, D.C. 20210

### BLS reports. • Item 768-G

L 2.71:(nos.)

- 16812 315. Labor law and practice in Israel [with selected bibliography; prepared by  
Morris Pollak and reviewed by Harriet Micocci]. [1967.] cover title,  
vi+120 p. il. 4° \* Paper, 60c.  
L.C. card 67-62738
- 16813 317. Work injuries and accident causes in concrete brick and block industry;  
[prepared by T. H. Rockwell and Donald Namenche]. Apr. 1967. vi+85 p.  
il. 4° †  
L.C. card 67-62563

### Bulletins. • Item 768

L 2.3:(nos.)

- 16814 1465-86. Wages and related bulletin: pt. 1. 84 metropolitan areas, 1965-66, [re-  
vised pages]. June 1967. [1]+66-74 p. oblong 8° †
- 16815 1530-80. Area wage survey: Spokane, Wash., metropolitan area, June 1967. Sept.  
1967. iii+30+[1] p. oblong 8° \* Paper, 25c.  
L.C. card L 66-162
- 16816 1530-82. Same: Norfolk-Portsmouth and Newport News-Hampton, Va., metro-  
politan area, June 1967. Aug. 1967. iii+30+[1] p. oblong 8° \* Paper,  
25c.  
L.C. card L 66-160
- 16817 1530-83. Same: New York, N.Y., metropolitan area, Apr. 1967. Aug. 1967. iv+66  
+[1] p. oblong 8° \* Paper, 40c.  
L.C. card L 66-159
- 16818 1530-84. Same: San Antonio, Tex., metropolitan area, June 1967. Aug. 1967.  
iii+32 p. oblong 8° \* Paper, 25c.  
L.C. card L 66-152
- 16819 1530-85. Same: Houston, Tex., metropolitan area, June 1967. Aug. 1967. iii+24  
p. oblong 8° \* Paper, 25c.  
L.C. card 66-62759
- 16820 1558. Wage chronology: Bituminous coal mines, 1933-68. July 1967. iii+[1]  
+20+[1] p. 4° \* Paper, 25c.  
L.C. card L 66-2
- 16821 1559. Same: Aluminum Company of America, 1939-67. July 1967. v+42 p.  
4° \* Paper, 30c.  
L.C. card L 62-92
- 16822 1560. Same: American Viscose, 1945-67, July 1967. iv+18+[1] p. 4° \* Paper,  
20c.  
L.C. card L 64-118

- 16823 Department store inventory price indexes, July 1967. Aug. 31, 1967. 2 p.  
4° † L 2.79:967-2

- 16824 Major collective bargaining agreement expirations, 1967; [prepared by  
Cordelia T. Ward]. [1967.] cover title, iii+51 p. 4° † L 22: C 68/4/967

- 16825 Measurement of employment, hours, and earnings in nonagricultural indus-  
tries. Revised July 1966. [1967.] [2]+10+[1] p. 4° †  
L 2.2: Em7/35/966

- 16826 Measurement of labor turnover. Revised June 1966. [1967.] [1]+5 p. il.  
4° † L 2.2: L11/10/966

### Monthly labor review, reprint.

- 16827 2533. Wages in Japan and United States, 2 articles discussing similarities and  
contracts in these countries' wage systems: [by] Janet L. Norwood. 1967.  
25-28, 30-34 p. il. 4° [From Apr. and May 1967 issues. Second article  
is entitled: Composition of wages and supplements, U.S.-Japan com-  
parisons.] † L 2.6/a: 2533

### NE regional reports.

- 16828 67-1. New England labor and economy at year-end. [Dec. 25, 1966.] cover title.  
18 p. 4° † L 2.71/3: 67-1

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# NOVEMBER 1967

- 16829 Negro's occupational progress; [by Joe L. Russell]. [1967.] [1]+8-13 p. il. 4° [Reprinted from Occupational outlook quarterly, v. 10, no. 4, Dec. 1966.] \* Paper, 10c. L 2.70/4a : N 312
- 16830 Occupational earnings and wage trends in metropolitan areas, 1966-67, summary release no. 2 of 3 (28 areas). June 1967. 10+[2] p. 4° † L 2.86 : 966-67/no.2
- 16831 Some facts relating to impact of changing economy on Negro and Puerto Rican worker, [charts and tables for presentation at conference on urban environment, problems and prospects, New York Personnel and Guidance Association, New York, N.Y., Dec. 2, 1966. [1967.] [1]+15 p. il. 4° † L 2.2 : N31/4
- 16832 Statement of price indexes for 1967 model automobiles. Nov. 23, 1966. 3 leaves, 4° † L 2.2 : Au8/4

## LAKE SURVEY (Army), Defense Dept. 630 Federal Bldg., Detroit, Mich. 48226

### Research report RR (series).

- 16833 5-3. Total atmospheric water vapor aloft over Great Lakes basin [with list of references]; by S. J. Bolsenga. Apr. 1967. iii+7+[2] p. il. 3 pl. 4° † D 103.209 : 5-3
- 16834 Supplement 4, Aug. 1967, corrections and additions to 1967 Great Lakes pilot. [1967.] [2] p.+16 leaves. [Bearings are true and distances are expressed in statute miles. Supplements information given upon charts published by Lake Survey.] † U.S. Army Engineer District, Lake Survey, Corps of Engineers, 630 Federal Building, Detroit, Mich. 48226. L.C. card 6-7112 D 103.203 : 967/supp.4
- 16835 Supplement 5, Sept. 1967, corrections and additions to 1967 Great Lakes pilot. [1967.] [2] p.+12 leaves. [Bearings are true and distances are expressed in statute miles. Supplements information given upon charts published by Lake Survey.] † U.S. Army Engineer District, Lake Survey, Corps of Engineers, 630 Federal Building, Detroit, Mich. 48226. L.C. card 6-7112 D 103.203 : 967/supp.5
- 16836 Supplement 6, Oct. 1967, corrections and additions to 1967 Great Lakes pilot. [1967.] [2] p.+10 leaves. [Bearings are true and distances are expressed in statute miles. Supplements information given upon charts published by Lake Survey.] † U.S. Army Engineer District, Lake Survey, Corps of Engineers, 630 Federal Building, Detroit, Mich. 48226. L.C. card 6-7112 D 103.203 : 967/supp.6

## LIBRARY OF CONGRESS Washington, D.C. 20540

- 16837 Land ownership maps, checklist of 19th century United States county maps in Library of Congress; compiled by Richard W. Stephenson. 1967. xxv+86 p. il. 4° \* Paper, 70c. ● Item S11-A LC 5.2 : L 22
- 16838 National union catalog, cumulative author list representing Library of Congress printed cards and titles reported by other American libraries: Register of additional locations, 1966; [compiled and edited by Catalog Maintenance and Catalog Publications Division]. 1967. xv+1005 p. 4° (Library of Congress catalogs.) [Supplement to National union catalog.] † [Included in subscription to National union catalog. See Entry no. 3601, Feb. 1967 Monthly catalog.] L.C. card 56-60041 LC 30.8/7 : 966-2

## MARINE CORPS (Navy), Defense Dept. Washington, D.C. 20350

### Fleet Marine Force manual FMFM (series). ● Item 384 D 214.9/4 : (nos.)

- 16839 3-2. [Amphibious training]. Change 1 [May 26, 1967, with list of references]. [1967.] [100] p. il. 4° [Includes list of effective pages. Issued in loose-leaf form] \* Paper, 55c.

### ♠For Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

### ●Sent to Depository Libraries

Page 65

# GOVERNMENT PUBLICATIONS

## Fleet Marine Force manual FMFM (series)—Continued

- 16840 9-1. [Tank employment, Apr. 15, 1965], Change 1, July 5, 1967. [94] p. il. 4°  
[Includes list of effective pages. Issued in looseleaf form.] \* Paper, 50c.  
16841 9-3. Antimechanized operations, Change 1, July 5, 1967. [90] p. il. 4° [Issued  
with perforations.] \* Paper, 75c.  
16842 Occupational opportunities, United States Marine Corps. [1967.] 40 p.  
oblong 32° ([NAVMC 6992 (Rev. 4-67).]) † ● Item 383  
D 211.2: Oc 1

## MARITIME ADMINISTRATION, Commerce Dept. Washington, D.C. 29548

- 16843 Maritime museums in the United States. [1967.] 52 p. oblong 12° \* Paper,  
50c. ● Item 235  
L.C. card 67-62675 C 39.202: M 97  
16844 Merchant fleets of world seagoing steam and motor ships of 1,000 gross tons  
and over, as of Dec. 31, 1966; [prepared by Office of Maritime Pro-  
motion]. [June 16, 1967.] 20 p. 4° ([Report MAR-560-20.]) \* Paper,  
15c. ● Item 236-B C 39.212: 966

## MEDICINE AND SURGERY BUREAU (Navy), Defense Dept. Washington, D.C. 20350

### U.S. Naval Submarine Medical Center, Submarine Base, Groton, Conn.: Report.

- 16845 466. Performance of Farnsworth Lantern at Submarine Medical Research Labo-  
ratory and in field 1955-65 [with list of references]; by Helen M. Paul-  
son. [Jan. 19, 1966]. iii+24+2 p. il. 4° (Research work unit  
MF022.03.03-9017.01.) † D 206.10:466  
— Special report.  
16846 67-4. Summaries of research reported on during 1966; [prepared by Jessie W.  
Kohl]. Feb. 15, 1967. cover title, viii+31+[2] p. 4° †  
D 206.10/3:67-4

## MINERALS EXPLORATION OFFICE, Interior Dept. Washington, D.C. 20240

- 16847 2d annual report, period ending June 30, 1967, prepared for transmittal to  
the Congress pursuant to sec. 5 of Public law 701, 85th Congress, as modi-  
fied by sec. 2 (5) of Public law 348, 89th Congress. [1967.] [1]+9 p. 4° †  
L.C. card 67 61220 I 55.1: 967

## MINES BUREAU, Interior Dept. Washington, D.C. 20240

### Bulletins. ● Item 636

I 28.3:(nos.)

- 16848 640. Advances in coal spectrometry, absorption spectrometry [with list of refer-  
ences]; by R. A. Friedel, H. L. Retcofsky, and J. A. Queiser. [1967.]  
iv+48 p. il. 4° \* Paper, 35c.  
L.C. card 67-62712  
16849 641. Optical properties of coals and graphite [with list of references]; by J. T.  
McCartney and S. Ergun. [1967.] iv+49 p. il. 4° \* Paper, 35c.  
L.C. card 67-62562  
16850 643. Yields and analyses of tars and light oils from carbonization of U.S. coals  
[with list of references]; by H. G. Walters, C. Ortuglio, and J. Glaenger.  
[1967.] iii+91 p. 4° \* Paper, 50c.  
L.C. card 67-62717  
16851 Disabling work-injury experience of oil industry (all activities) and nat-  
ural gas industry (excluding distribution activities) in United States,  
1966; prepared by Nell B. Bradley, Bertha W. Brown, and Nina L. Jones.  
July 1967. [1]+15 p. 4° (Mineral industry surveys; Oil and gas injuries,  
annual.) † Mines Bureau, Pittsburgh, Pa. 15213 I 28.108: 966  
16852 Federal coal mine safety act, as amended, 30 U.S.C. 451; title 1, Advisory  
powers relating to health and safety conditions in mines; title 2, Pre-  
vention of major disasters in mines. Jan. 1967. v+63 p. 24° † ● Item  
637-E I 28.114: C 63

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Information circulars. ● Item 637-A

I 28.27: (nos.)

- 16853 8339. Fluorspar in Eastern States; by Ronald P. Hollenbeck. 1967. [2]+ii+35 p. il. 4° \* Paper, 30c.
- 16854 8340. Selenium and tellurium, materials survey [with lists of references], by Arnold M. Lamsche; with chapter on resources by David F. Davidson. [1967.] viii+56 p. il. 4° \* Paper, 60c.
- 16855 8344. Iron and steel scrap in intermountain and northwestern Plains States [with bibliography]; by Harold J. Bennett. 1967. [2]+iii+71 p. 4° \* Paper, 45c.
- 16856 8347. Analysis of 44 recent fatal accidents with front-end loaders; by R. O. Pynnönen and Allen D. Look. [Sept. 1967.] [3]+10 p. 4° † Mines Bureau, Pittsburgh, Pa. 15213  
L.C. card 67-62692

- 16857 Mineral industry of Brazil; by G. A. Rynearson and F. William Wessel. [1967.] [2]+13 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 10c. I 28.37/a2: B 739/965

- 16858 Mineral industry of France; by L. Nahai. [1967.] [2]+53 p. il. [Reprint from Minerals yearbook, 1965.] \* Paper, 20c. I 28.37/a2: F 844/965

- 16859 Mineral industry of Yugoslavia; by Roman V. Sondermayer. [1967.] [2]+10 p. [Preprint from Minerals yearbook, 1965.] \* Paper, 10c. I 28.37/a2: Y 9/965

Petroleum products survey (series). (Mineral industry surveys.)

- 16860 51. Burner fuel oils, 1967; prepared by O. C. Blade, Aug. 1967. cover title, [1]+30 p.+[4] leaves, il. 4° † Mines Bureau, Pittsburgh, Pa. 15213 ● Item 642-A I 28.18/3: 51

Report of investigations. ● Item 637-A

I 28.23: (nos.)

- 16861 7016. Electrodeposition of thick coatings of platinum and palladium on refractory metals from aqueous electrolytes [with list of references]; by Stephen D. Cramer [and others]. [Sept. 1, 1967.] [2]+ii+64 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 16862 7017. Electrochemical reduction of coal [with list of references]; by Heinz W. Sternberg [and others]. [Sept. 1967.] [2]+ii+38 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 16863 7020. Method for treating PVT [pressure-volume-temperature] data from Burnett compressibility apparatus [with list of references]; by Robert E. Barieau and B. J. Dalton. [Sept. 1967.] [2]+v+34 p. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 16864 7022. Vapor pressure of metal halides,  $\text{SnCl}_2\text{-ZnCl}_2$  binary system [with list of references]; by L. C. George, J. W. Jensen, and Robert M. Doerr. [Sept. 1967.] [3]+22 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 16865 7023. Electrodeposition of iridium from fused sodium cyanide and aqueous electrolytes, preliminary study [with list of references]; by R. L. Andrews, C. B. Kenahan, and David Schlaun. [Sept. 1967.] [3]+12 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 16866 7024. Effect of carbonization conditions and coal properties on coke size and strength parameters; by Manuel Gomez, J. G. Walters, and J. B. Gayle. [Sept. 1967.] [3]+34 p. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 16867 7025. Thermoelectric properties of yttrium-groups 5 and yttrium-groups 6 binary and ternary compounds [with list of references]; by Timothy J. Driscoll, jr., and Lindsay D. Norman, jr. [Sept. 1967.] [3]+14 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213

MISSOURI BASIN INTER-AGENCY COMMITTEE

NOTE.—The chairman of the Missouri Basin Inter-Agency Committee for the fiscal year is the Interior Department member, C. L. Conaway, Department of Interior, Box 2530, Billings, Montana 59103.

- 16868 Annual programming report, fiscal years 1967-69. May 1967. cover title, [121] p. 4° †  
L.C. card 61-60376 Y 3.M 69: 8/967-69

- 16869 Minutes of 148th meeting, Aberdeen, So. Dak., Mar. 29-30, 1967; [prepared by Charles A. Cocks]. [1967.] cover title, 37+[74] p. 4° †  
L.C. card 57-33283 Y 3.M 69: 2M 66/967-2

- 16870 Minutes of 149th meeting, Des Moines, Iowa, June 21-22, 1967; [prepared by Charles A. Cocks]. [1967.] cover title, 49+[67] p. 4° †  
L.C. card 57-33283 Y 3.M 69: 2M 66/967-3

†For Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## MOTOR CARRIER SAFETY BUREAU, Transportation Dept. Washington, D.C. 20591

NOTE.—The Motor Carrier Safety Bureau was transferred from the Interstate Commerce Commission to the Federal Highway Administration, Transportation Department by Public law 89-670, approved Oct. 15, 1966.

- 16871 1965-66 accidents of large motor carriers of property. Aug. 1967. 28 p. il. 4°  
[Interstate motor carriers with annual operating revenues of \$200,000 or more.] † TD 2.310; 965-66
- Motor carrier accident investigation reports. † TD 2.309:(nos.)
- 16872 67-2. Julio M. Puente, accident, May 30, 1967 near Dwight, Ill. [1967.] 7 p. il. 4°
- 16873 67-3. C & S Express, Inc., accident, June 13, 1967. Upper Marlboro, Md. [1967.] 11 p. il. 4°
- 16874 67-4. Petroleum Transit Corporation of South Carolina, accident, June 23, 1967, Hardeeville, S.C. [1967.] 9 p. il. 4°
- 16875 67-5. Aero Trucking, Inc. accident, June 18, 1967, Luke, Md. [1967.] 9 p. il. 4°

## NATIONAL ACADEMY OF SCIENCES Washington, D.C. 20418

- 16876 National Academy of Sciences, National Research Council, annual report, fiscal year 1963-64. [1967.] vii+276 p. [Also issued as S. doc. 31, 90th Cong., 1st sess.] \* Paper, \$1.00. • Item 830  
L.C. card 15-10608 NA 1.1: 964

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, D.C. 20546

AEC-NASA tech briefs. [Descriptions of innovations resulting from research and development program of AEC or from AEC-NASA interagency efforts.] • Paper, each 15c. NAS 1.29/2:(nos.)

- 16877 67-10264. Inexpensive cryogenic insulation replaces vacuum jacketed line. July 1967. [2] p. il. 4° ([NUC-10061.])
- 16878 67-10265. Aluminum-titanium hydride-boron carbide composite provides lightweight neutron shield material. Aug. 1967. 1 p. 4° (NUC-10069.)
- 16879 67-10266. Simplified method measures changes in tensile yield strength using least number of specimens. Aug. 1967. [2] p. il. 4° ([NUC-10075.])
- 16880 67-10294. Sensitive bridge circuit measures conductance of low-conductivity electrolyte solutions. Aug. 1967. [2] p. il. 4° ([ARG-147.])
- 16881 67-10304. Cytology is advanced by studying effects of deuterium environment. Aug. 1967. [2] p. 4° (ARG-205.)
- 16882 67-10305. Liquid micrurgy chamber and microsyringe designs allow more efficient micromanipulations. Aug. 1967. [2] p. il. 4° ([ARG-251.])
- 16883 67-10311. Transistor biased amplifier minimizes diode discriminator threshold attenuation. Aug. 1967. [2] p. il. 4° ([ARG-163.])
- 16884 67-10312. New electron microscope employs new video display technique. Aug. 1967. [2] p. il. 4° ([ARG-158.])
- 16885 67-10313. Precision capacitor has improved temperature and operational stability. Aug. 1967. [2] p. il. 4° ([ARG-189.])
- 16886 67-10315. Tritiated alumina serves as reagent for self-labeling analysis. Sept. 1967. [2] p. 4° ([ARG-209.])
- 16887 67-10317. Improved head-controlled TV system produces high-quality remote image. Sept. 1967. [2] p. il. 4° ([ARG-128.])
- 16888 Cost plus award fee contracting guide. [1967.] cover title, [2]+iii+116 p. il. 4° (NHB 5104.4.) [Supersedes pt. 7 of NASA incentive contracting guide (formerly NPC 403), Jan. 18, 1965.] \* Paper, 65c. • Item 830-F  
NAS 1.18: C 82/3
- 16889 NASA BITS, brief ideas, thoughts, suggestions. July 1967 edition. [1967.] cover title, iv+27 p. 4° (NHB 1460.8.) [Semiannual.] † • Item 830-S  
NAS 1.36: 967

NASA contractor report CR (series). NAS 1.26:(nos.)

- 16890 758. Study of fluid flight path control system [with list of references]. Aug. 1967. cover title, xii+109+[112] p. il. 4° [Prepared under contract NAS 4-763 by Honeywell Inc., Minneapolis, Minn. Issued by originator as report 20175-FRI.] • Paper, \$3.00.
- 16891 784. Auxiliary power systems for lunar roving vehicle [with lists of references]: by E. P. Erlanson. Aug. 1967. cover title, xiii+285 p. il. 4° [Prepared under contract NAS 3-7627 by General Electric, Spacecraft Department, Philadelphia, Pa. Issued under document 66SD4395.] • Paper, \$3.00.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# NOVEMBER 1967

- 16892 853. Maximum response of rectangular plates to random excitation [with list of references]; by Richard L. Barnoski. Sept. 1967. cover title, v+41 p. il. 4° [Prepared under contract NAS 8-20020 by Measurement Analysis Corporation, Los Angeles, Calif.]  $\Phi$  Paper, \$3.00.
- 16893 854. Light sources for remote sensing systems [with list of references]; by M. W. P. Cann. Aug. 1967. cover title, xv+149 p. il. 4° [Prepared under contract NAS 8-20107 by IIT Research Institute, Chicago, Ill.]  $\Phi$  Paper, \$3.00.
- 16894 855. Isothermal and isophotic atlas of moon contours through lunation [with list of references]; by J. M. Saari and R. W. Shorthill. Sept. 1967. cover title, v+186 p. il. 4° [Prepared under contract NASw-982 by Boeing Scientific Research Laboratories, Seattle, Wash.]  $\Phi$  Paper, \$3.00.
- 16895 864. Plane-stress analysis of edge-stiffened rectangular plate subjected to boundary loads, boundary displacements, and temperature gradients [with list of references]; by Chuan-jui Lin and Charles Libove. Aug. 1967. cover title, vii+226 p. il. 4° [Prepared under grant NSG-385 by Syracuse University Research Institute, Syracuse, N.Y. Issued by originator as report ME 1065-6704.]  $\Phi$  Paper, \$3.00.
- 16896 865. Electromagnetic guidance study [with list of references]; by J. H. Lowry. Sept. 1967. cover title, xviii+403 p. il. 4° [Prepared under contract NAS 12-18 by McDonnell Aircraft Corporation, St. Louis, Mo. Issued by originator as Report E666.]  $\Phi$  Paper, \$3.00.
- 16897 866. Research and development of electron-sensitive solid state matrix [with list of references]. Sept. 1967. cover title, ix+[117] p. il. 4° [Prepared under contract NAS 5-3446 by Westinghouse Defense and Space Center, Baltimore, Md.]  $\Phi$  Paper, \$3.00.
- 16898 867. Time-optimal response of feedback control systems by means of discontinuous rate compensation [with bibliography]; by Richard J. Levesque. Oct. 1967. cover title, x+101 p. il. 4° [Prepared under grant NSG-338 by University of Maine, Orono, Maine.]  $\Phi$  Paper, \$3.00.
- 16899 869. Meteoroid damage to filamentary structures [with list of references]; by Richard H. MacNeal. Sept. 1967. cover title, [1]+28 p. il. 4° [Prepared under contract NAS 7-427 by Astro Research Corporation, Santa Barbara, Calif. Issued by originator as Report ARC-R-222.]  $\Phi$  Paper, \$3.00.
- 16900 870. Lunar Orbiter 1, extended-mission spacecraft subsystem performance. Sept. 1967. cover title, lli+59 p. il. 4° [Prepared under contract NAS 1-3800 by Boeing Company, Seattle, Wash. Issued by originator as report D2-100727-5.]  $\Phi$  Paper, \$3.00.
- 16901 871. Some considerations of manned extravehicular activities in assembly and operation of large space structures; by H. Schuerch. Sept. 1967. cover title, v+17 p. il. 4° [Prepared under contract NAS 7-427 by Astro Research Corporation, Santa Barbara, Calif. Issued by originator as report ARC-R-217.]  $\Phi$  Paper, \$3.00.
- 16902 872. Gratings and networks of ribbons as radio reflectors [with one reference]; by William M. Robbins, jr. Sept. 1967. cover title, [1]+17 p. il. 4° [Prepared under contract NASA 7-426 by Astro Research Corporation, Santa Barbara, Calif. Issued by originator as Report ARC-R-231.]  $\Phi$  Paper, \$3.00.
- 16903 873. Spinning paraboloidal tension networks [with one reference]; by William M. Robbins, jr. Sept. 1967. cover title, [1]+31 p. il. 4° [Prepared under contract NAS 7-426 by Astro Research Corporation, Santa Barbara, Calif. Issued by originator as report ARC-R-240.]  $\Phi$  Paper, \$3.00.
- 16904 874. Human operator response speed, frequency, and flexibility, review, analysis and device demonstration [with list of references]; by M. J. Wargo [and others]. Sept. 1967. cover title, vi+74 p. il. 4° [Prepared under contract NAS 12-103 by Dunlap and Associates, Inc., Santa Monica, Calif.]  $\Phi$  Paper, \$3.00.
- 16905 881. Fatigue behavior of fusion welded Ti-8Al-1Mo-1V simulated wing structure under environment of supersonic transport [with list of references]; by John J. Peterson. Sept. 1967. cover title, [1]+73 p. il. 4° [Prepared under contract NAS 1-5495 by LTD Aerospace Corporation, Dallas, Tex.]  $\Phi$  Paper, \$3.00.
- 16906 882. Liquid sloshing in elastic containers [with list of references]; by Helmut F. Bauer, Teh-Min Hsu, and James Ting-Shun Wang. Sept. 1967. cover title, v+34 p. il. 4° [Prepared under grant NGR-11-002-028 by Georgia Institute of Technology, Atlanta, Ga. Prepared by originator under project E-906.]  $\Phi$  Paper, \$3.00.
- 16907 884. Vibration study of pressurized torus shell: pt. 1, Experimental study [with list of references]; by Peter F. Jordan. Oct. 1967. cover title, v+57 p. il. 4° [Prepared under contract NAS 1-6088 by Martin Company, Baltimore, Md.]  $\Phi$  Paper, \$3.00.
- 16908 885. Same: pt. 2, Development and applications of analysis [with list of references]; by Atis A. Liepins. Oct. 1967. cover title, vii+44 p. il. 4° [Prepared under contract NAS 1-6632 by Dynatech Corporation, Cambridge, Mass.]  $\Phi$  Paper, \$3.00.
- 16909 886. Study of low pressure application of orbitron [with list of references]; by Paul J. Bryant and Charles M. Gosselin. Sept. 1967. cover title, v+20 p. il. 4° [Prepared under contract NAS 1-6279 by Midwest Research Institute, Kansas City, Mo.]  $\Phi$  Paper, \$3.00.
- 16910 887. Non-rotating vorticity meter [with list of references]; by Michael C. McMahon and Melvin H. Snyder, jr. Oct. 1967. cover title, vi+21 p. il. 4° [Prepared under grant NGR-17-003-003 by Wichita State University, Wichita, Kans. Issued by originator as Report AR 66-3.]  $\Phi$  Paper, \$3.00.

# GOVERNMENT PUBLICATIONS

## NASA contractor report CR (series)—Continued

- 16911 889. Biomagnetics, considerations relevant to manned space flight [with list of references]; by Douglas E. Busby. Sept. 1967. cover title, vi+57 p. il. 4° [Prepared under contract NASR-115 by Lovelace Foundation for Medical Education and Research, Albuquerque, N.M.]  $\Phi$  Paper, \$3.00.
- 16912 891. Engineering criteria for spacecraft cabin atmosphere selection [with list of references]; by M. S. Bonura et al. Sept. 1967. cover title, xxi+281 p. il. 4° [Prepared under contract NASw-1371 by Douglas Aircraft Company, Inc., Santa Monica, Calif.]  $\Phi$  Paper, \$3.00.
- 16913 892. Development of prototype plastic space erectable satellite [with list of references]; by Vincent F. D'Agostino and Preston Keusch. Sept. 1967. cover title, xiii+176+[37] p. il. 4° [Prepared under contract NAS 5-3923 by Rai Research Corporation, Long Island City, N.Y.]  $\Phi$  Paper, \$3.00.
- 16914 893. Colloidal asbestos fibrils as reinforcements for polymeric structures; by Charles A. Rader and Anthony M. Schwartz. Sept. 1967. cover title [1]+27 p. il. 4° [Prepared under contract NASw-1420 by Gillette Research Institute, Inc., Washington, D.C.]  $\Phi$  Paper, \$3.00.
- 16915 894. Application of Lyapunov stability theory to some nonlinear problems in hydrodynamics [with list of references]; by Gabe R. Buis and William G. Vogt. Sept. 1967. cover title, iii+20 p. il. 4° [Prepared under grant NGR 39-011-039 by University of Pittsburgh, Pittsburgh, Pa.]  $\Phi$  Paper, \$3.00.
- 16916 895. Code of transformation task that provides performance measures of non-verbal mediation (COTRAN) [with list of references]; by Earl A. Alluisi and Glyn D. Coates. Sept. 1967. cover title, viii+37 p. il. 4° [Prepared under grant NGR-18-002-008 by University of Louisville, Louisville, Ky.]  $\Phi$  Paper, \$3.00.
- 16917 896. Thermal and mechanical properties of nondegraded and thermally degraded phenolic-carbon composite [with list of references]; by W. T. Engelage, C. M. Pyron, Jr., and C. D. Pears. Oct. 1967. cover title, iii+55 p. il. 4° [Prepared under contract NAS 1-5448, task order 3 by Southern Research Institute, Birmingham, Ala.]  $\Phi$  Paper, \$3.00.
- 16918 898. Study and analysis of satellite power systems configurations for maximum utilization of power. Oct. 1967. cover title, xvii+[282] p. il. 4° [Prepared under contract NAS 5-9178 by TRW Systems, Redondo Beach, Calif. Issued by originator as Report 04898-6001-R000.]  $\Phi$  Paper, \$3.00.
- 16919 900. Fore-and-aft stiffness characteristics of pneumatic tires [with list of references]; by R. N. Dodge, David Orne, and S. K. Clark. Oct. 1967. cover title, vi+34 p. il. 4° [Prepared under grant Nsg-344 by University of Michigan, Ann Arbor, Mich. Issued by originator as technical report 6.]  $\Phi$  Paper, \$3.00.
- 16920 902. Study on feasibility of V/STOL concepts for short haul transport aircraft [with list of references and uncited references]. Oct. 1967. cover title, [1]+170 p. il. 4° [Prepared under contract NAS 2-3033 by Lockheed-California Company, Burbank, Calif. Issued by originator as report LR 19586.]  $\Phi$  Paper, \$3.00.
- 16921 NASA educational publications. Sept. 1967. 12 p. narrow 8°  $\dagger$   $\bullet$  Item 830-J NAS 1.9/2: Ed 8/967
- NASA facts. [Educational publication of Office of Public Affairs, Educational Programs Division.]  $\bullet$  Item 830-H
- 16922 S-2. Spacecraft tracking and communication. [Aug. 1967.] [4] p. il. 4° (Science series, Jr. high school general science.) \* Paper, 5c. NAS 1.20: S-2
- 16923 S-4. Countdown [with list of references]. [Aug. 1967.] [4] p. il. 4° (Science series, elementary, general science.) \* Paper, 5c. NAS 1.20: S-4
- 16924 v. 4, no. 3. Pioneer spacecraft. [1967.] 8 p. il. 4° (NF-31.) \* Paper, 10c. NAS 1.20: 4/3
- 16925 v. 4, no. 8. Simulators. [1967.] 8 p. il. 4° (NF-36.) \* Paper, 10c. NAS 1.20: 4/8
- 16926 NASA headquarters telephone directory. [Quarterly.] \* Paper, \$1.25 a yr., 50c. additional for foreign mailing; single copy 35c. NAS 1.24: (date)
- Mar. 1967—
- 16927 NASA incentive contracting guide, NHB 5104.3. [3d edition.] [1967.] cover title, [1]+ii+[142] p. il. 4° (Formerly NPC 403.) [This handbook, with NHB 5104.4 supersedes Jan. 18, 1965 edition.] \* Paper, 70c.  $\bullet$  Item 830-F NAS 1.18: In 2/2/967
- NASA SP (series). NAS 1.21: (nos.)
- 16928 153. Symposium on computer simulation of plasma and many-body problems, cosponsored by NASA Langley Research Center and College of William and Mary, held Apr. 19-21, 1967, at College of William and Mary, Williamsburg, Va. [with bibliographies]. 1967. viii+[1]+440 p.+[8] leaves, il. 4° (Scientific and Technical Information Division.) [Errata, dated Oct. 31, 1967, 1+14 p., issued also.]  $\Phi$  Paper, \$3.00. L.C. card 67-62729

\*For Sale by Superintendent of Documents

$\dagger$ Distribution Made by Issuing Office

$\ddagger$ Official Use. Not Available

# NOVEMBER 1967

- 16929 3024. Models of trapped radiation environment: v. 4. Low energy protons [with list of references; by] Joseph H. King. 1967. vi+62 p. il. 4° (Scientific and Technical Information Division, Office of Technology Utilization.) [Study sponsored by National Aeronautics and Space Administration and Air Force and prepared under Air Force contract by Aerospace Corporation, El Segundo, Calif.] Φ Paper, \$3.00. L.C. card 66-60540
- 16930 3034. Electron densities and scale heights in topside ionosphere, Alouette 1 observations over American continents: v. 4. Summary graphs [with list of references; by] Kwok-Long Chan, Lawrence Colin, and John O. Thomas. 1967. iii+321 p. il. 4° (Scientific and Technical Information Division, Office of Technology Utilization.) Φ Paper, \$3.00. L.C. card 66-62184
- 16931 5021(05). Index to NASA tech briefs, Jan.-June 1967. Aug. 1967. cover title. iv+16+26 p. 4° [Supplements Cumulative index to NASA tech briefs, NASA SP-5021(04), Feb. 1967.] Φ Paper, \$3.00. L.C. card 65-60677
- 16932 5039. Structural design concepts, some NASA contributions [with bibliographies]; by L. Albert Scipio. 1967. vi+174 p. il. ([Technology Utilization]; Technology Utilization Division, Office of Technology Utilization.) \* Paper, 70c. ● Item 830-1 L.C. card 67-61859
- 16933 5083. Analytical chemistry instrumentation, survey [with list of references]; by J. S. Whittick, R. F. Muraca, and L. A. Cavanagh. Aug. 1966 [published] 1967. vi+134 p. il. ([Technology Utilization]; Technology Utilization Division, Office of Technology Utilization.) [Prepared under NASA contract NASr-49(10), Stanford Research Institute, Menlo Park, Calif.] \* Paper, 60c. ● Item 830-1 L.C. card 67-60025
- 16934 7011(40). Aerospace medicine and biology, continuing bibliography with indexes, selection of annotated references to unclassified reports and journal articles that were introduced into NASA Information System during July 1967; [prepared by Scientific and Technical Information Facility operated by Documentation Incorporated]. Aug. 1967. vi+80+I-81 p. 4° (Scientific and Technical Information Division.) [Compiled through cooperative efforts of Aerospace Medicine and Biology Bibliography Project of Library of Congress (LC), American Institute of Aeronautics and Astronautics (AIAA), and NASA.] Φ Paper, \$3.00. L.C. card 65-62676
- 16935 7011(41). Aerospace medicine and biology, continuing bibliography with indexes, selection of annotated references to unclassified reports and journal articles that were introduced into NASA Information System during Aug. 1967; [prepared by Scientific and Technical Information Facility operated by Documentation Incorporated]. Sept. 1967. vi+82+I-79 p. 4° (Scientific and Technical Information Division.) [Compiled through cooperative efforts of Aerospace Medicine and Biology Bibliography Project of Library of Congress (LC), American Institute of Aeronautics and Astronautics (AIAA), and NASA.] Φ Paper, \$3.00. L.C. card 65-62676

NASA tech briefs. [Issued by Technology Utilization Division to summarize specific technical innovations derived from the space program. Issued with perforations.] Φ Paper, each 15c. NAS 1.29: (nos.)

- 16936 67-10232. Blood oxygen saturation determined by transmission spectrophotometry of hemolyzed blood samples. Aug. 1967. [2] p. 4° ([MSC-11618.]) [Corrected copy.]
- 16937 67-10274. High impact pressure regulator withstands impacts of over 15,000 g. Aug. 1967. [2] p. il. 4° ([NPO-10175.])
- 16938 67-10276. System precisely controls oscillation of vibrating mass. Aug. 1967. [2] p. il. 4° ([M-FS-1875.])
- 16939 67-10279. Computer program for determination of natural frequencies of closed spherical sandwich shells. Aug. 1967. [2] p. 4° ([MSC-1246.])
- 16940 67-10280. Master control data handling program uses automatic data input. Aug. 1967. 1 p. 4° ([M-FS-2259.])
- 16941 67-10286. Liquid crystals detect voids in fiberglass laminates. Aug. 1967. [2] p. 4° ([LEW-10104.])
- 16942 67-10287. Computer program provides linear sampled-data analysis for high order systems. Aug. 1967. [2] p. 4° ([MFS-12821.])
- 16943 67-10288. Laser system generates single-frequency light. Aug. 1967. [2] p. 4° ([MFS-2556.])
- 16944 67-10289. Wideband, high efficiency optical modulator requires less than 10 watts drive power. Aug. 1967. [2] p. il. 4° ([MFS-12733.])
- 16945 67-10297. Fresnel diffraction plates are simple and inexpensive. Aug. 1967. 1 p. 4° ([MFS-12731.])
- 16946 67-10298. Electronic dummy for acoustical testing. Aug. 1967. [2] p. il. 4° ([MSC-206, 1164, 1165, and 1166.])
- 16947 67-10299. Liquid oxygen ducting cleaned by falling film method. Aug. 1967. [2] p. il. 4° ([MFS-11816.])
- 16948 67-10300. Circuit provides overcurrent protection to push-pull amplifier. Aug. 1967. [2] p. il. 4° ([MSC-12033.])
- 16949 67-10303. Process controls introduction of selected impurities into semiconductor wafers. Aug. 1967. 1 p. il. 4° ([GSF C-523.])

ΦFor Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 71



# GOVERNMENT PUBLICATIONS

## NASA tech briefs—Continued

- 16950 67-10306. Computer program uses Monte Carlo techniques for statistical system performance analysis. Aug. 1967. 1 p. 4° (MFS-2234.)
- 16951 67-10307. Computer program determines thermal environment and temperature history of lunar orbiting space vehicles. Aug. 1967. 1 p. 4° (MFS-12916.)
- 16952 67-10309. Study of random process theory aids digital data processing. Aug. 1967. 1 p. 4° (MFS-1475.)
- 16953 67-10310. Computer program for mass optional solutions of some endpoint trajectory problems. Aug. 1967. 1 p. 4° (MFS-12976.)
- 16954 67-10319. Transient analysis generator (TAG) simulates behavior of large class of electrical networks. Sept. 1967. 1 p. 4° (NPO-10031.)
- 16955 67-10320. Evaporant feed device facilitates flash vapor deposition process in vacuum. Sept. 1967. [2] p. il. 4° ([NPO-10232.])
- 16956 67-10321. Application of distorted models in developing scaled structural models. Sept. 1967. [2] p. 4° ([MFS-2540.])
- 16957 67-10322. Chemical milling solution reveals stress corrosion cracks in titanium alloy. Sept. 1967. [2] p. il. 4° ([LAR-10077.])
- 16958 67-10323. Computer program utilizes FORTRAN IV subroutines for contour plotting. Sept. 1967. [2] p. 4° ([NPO-10127.])
- 16959 67-10325. Segmented, arch-bound carbon seal is pressure loaded. Sept. 1967. [2] p. il. 4° ([MFS-12777.])
- 16960 67-10326. Portable spectrometer monitors inert gas shield in welding process. Sept. 1967. [2] p. il. 4° ([M-FS-12144.])
- 16961 67-10327. Multiple correlation computer program determines relationships between several independent and dependent variables. Sept. 1967. 1 p. 4° (MFS-13024.)
- 16962 67-10331. General purpose computer programs for numerically analyzing linear ac electrical and electronic circuits for steady-state conditions. Sept. 1967. 1 p. 4° (MFS-13094.)
- 16963 67-10332. Hand-held instrument should relieve hematoma pressure. Sept. 1967. [2] p. il. 4° ([MSC-599.]) [Corrected copy.]
- 16964 67-10333. Braze joint quality tested electromagnetically. Sept. 1967. [2] p. il. 4° ([MFS-12795.])
- 16965 67-10335. Method of improving contact bonds in silicon integrated circuits. Sept. 1967. 1 p. 4° (MFS-1753.)
- 16966 67-10336. Device enables calibration of microphones at high sound pressure levels. Sept. 1967. 1 p. 4° (MFS-11980.)
- 16967 67-10337. Low-energy gamma ray inspection of brazed aluminum joints. Sept. 1967. [2] p. il. 4° ([MSC-1189.])
- 16968 67-10338. Accuracy of laser measurements improved by pulse autocorrelator electronic system. Sept. 1967. [2] p. il. 4° ([MSC-10033.])
- 16969 67-10340. High-strength tungsten alloy with improved ductility. Aug. 1967. 1 p. 4° (Lewis-10257.)

## NASA technical note TN (series).

NAS 1.14: D-(nos.)

- 16970 D-3980. Dynamic model investigation of water pressures and accelerations encountered during landings of Apollo spacecraft [with list of references]; by Sandy M. Stubbs. Sept. 1967. cover title, [1]+43 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16971 D-4079. Hypersonic aerodynamic characteristics of minimum-wave-drag bodies having variations in cross-sectional shape [with list of references]; by Bernard Spencer, jr. Sept. 1967. cover title, [1]+24 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16972 D-4085. Simulator investigation of maneuver speed increases of SST configuration in relation to speed margins [with list of references]; by Milton D. McLaughlin. Oct. 1967. cover title, [1]+31 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16973 D-4103. Equations for rapid machine computation of equilibrium composition of air and derivatives for flow-field calculations [with list of references]; by G. Louis Smith, Wayne D. Erickson, and Mary R. Eastwood. Oct. 1967. cover title, [1]+47 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16974 D-4106. Equilibrium thermodynamic properties of high-temperature nitrogen, alkali-metal vapor mixture [with list of references]; by Stephen K. Park. Oct. 1967. cover title, [1]+67 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16975 D-4107. Methods of obtaining surface temperatures of materials in presence of extraneous radiation [with list of references]; by R. L. Schilling. Sept. 1967. cover title, [1]+27 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16976 D-4110. Alignment of inertial systems on moving base [with list of references]; by Arthur H. Lipton. Sept. 1967. cover title, v+177 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16977 D-4111. Heterodyne phase shifter with inductive delay line pickup provides stepless phase shift [with list of references]; by George B. Robinson. Sept. 1967. cover title, iv+49 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16978 D-4113. Rounding error bounds by perturbation-condition analysis [with list of references]; by Donald J. Rose. Sept. 1967. cover title, [1]+31 p. 4°  $\Phi$  Paper, \$3.00.
- 16979 D-4114. Isentropic flow solutions for reacting gas mixtures in thermochemical equilibrium [with list of references]; by Ernest V. Zoby, Jane T. Kemper, and Casimir J. Jachimowski. Oct. 1967. cover title, [1]+48 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16980 D-4116. Effects of simulated space environment on thermal radiation characteristics of selected black coatings [with list of references]; by William R. Wade and Donald J. Progar. Sept. 1967. cover title, [1]+64 p. il. 4°  $\Phi$  Paper, \$3.00.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# NOVEMBER 1967

- 16981 D-4117. Far-field acoustic environmental predictions for launch of Saturn V and Saturn V MLV configuration [with list of references]; by Stanley Hiest and Jess H. Jones. Sept. 1967. cover title, vi+29 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16982 D-4119. Explicit solution for Lagrange multipliers on singular subarc of optimal trajectory [with bibliographies]; by Rowland E. Burns. Sept. 1967. cover title, vi+30 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16983 D-4120. Summary of operational experiences of 3 light observation helicopters and 2 large load-lifting military helicopters [with list of references]; by Daniel J. DiCarlo. Sept. 1967. cover title, [1]+34 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16984 D-4123. Scale factors for parachute opening [with one reference]; by Richard L. Barton. Sept. 1967. cover title, ii+17 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16985 D-4133. Effect of planetary albedo on solar orientation of spacecraft [with list of references]; by Anthony Fontana. Sept. 1967. cover title, [1]+25 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16986 D-4134. Aerodynamic investigation of some high-drag entry shapes at Mach 15.4 [with list of references]; by Frederick W. Gibson. Sept. 1967. cover title, [1]+25 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16987 D-4135. Digital computer program for calculating steady temperature and density distributions in gas containing heat sources [with list of references]; by Harry W. Davison. Sept. 1967. cover title, [1]+40 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16988 D-4138. Design and fabrication considerations for 1/10-scale replica model of Apollo/Saturn V [with list of references]; by Sumner A. Leadbetter, II. Wayne Leonard, and E. John Brock, Jr. Oct. 1967. cover title, [1]+81 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16989 D-4140. Differential cross sections for (d,a) reaction on scandium 45 [with list of references]; by Joseph R. Priest and John S. Vincent. Sept. 1967. cover title, [1]+11 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16990 D-4151. VULCAN, depletion program for use with independent 1-dimensional spatial calculations [with list of references]; by John L. Anderson, Jr. Sept. 1967. cover title, [1]+71 p. 4°  $\Phi$  Paper, \$3.00.
- 16991 D-4153. Determination of boundary-reflected-disturbance lengths in Langley 16-foot transonic tunnel [with list of references]; by Francis J. Capane and Edward M. Coates, Jr. Sept. 1967. cover title, [1]+68 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16992 D-4157. Theoretical performance of solar-cell space power systems using spectral dispersion: pt. 2, Dispersion by diffraction gratings [with list of references]; by Thomas M. Klucher. Sept. 1967. cover title, [1]+23 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16993 D-4158. Input admittance of coaxial transmission line opening onto flat dielectric-covered ground plane [with list of references]; by Calvin T. Swift. Sept. 1967. cover title, [1]+31 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16994 D-4159. Minimum fuel ascent from lunar surface [with list of references]; by Albert E. Brown. Sept. 1967. cover title, [1]+21 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16995 D-4160. Photodesorption of oxygen from nickel oxide powder [with list of references]; by Paul A. Faeth. Sept. 1967. cover title, [1]+13 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16996 D-4161. Method of analyzing dynamic data characterized by time-varying frequency spectrum; by Arthur D. Brenza. Sept. 1967. cover title, [1]+14 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16997 D-4162. Reaction rates of carbon monoxide with hydroxyl radicals and oxygen atoms [with list of references]; by Edgar L. Wong, Andrew E. Potter, Jr., and Frank E. Belles. Sept. 1967. cover title, [1]+18 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16998 D-4164. Estimates of local and average fuel temperatures in gaseous nuclear rocket engine [with list of references]; by Albert F. Kascak. Sept. 1967. cover title, [1]+29 p. il. 4°  $\Phi$  Paper, \$3.00.
- 16999 D-4165. Thermodynamic properties of potassium to 2100°K [with list of references]; by Sheldon Heimel. Sept. 1967. cover title, iv+36 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17000 D-4170. Investigation of pitch maneuver speed margins for supersonic transport configuration with variable-sweep wing [with list of references]; by Richard H. Sawyer, Milton D. McLaughlin, and Norman S. Silsby. Oct. 1967. cover title, [1]+15 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17001 D-4172. Gaseous-hydrogen-liquid-oxygen rocket combustion at supercritical chamber pressures [with list of references]; by Martin Hersch and Edward J. Rice. Sept. 1967. cover title, [1]+29 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17002 D-4173. Analysis of stress-rupture and creep properties of tungsten-fiber-reinforced copper composites [with list of references]; by David L. McDaniels, Robert A. Signorelli, and John W. Weeton. Sept. 1967. cover title, iv+55 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17003 D-4175. Electrochemical reduction of chlorine on carbon in molten lithium chloride-potassium chloride [with list of references]; by Andrew E. Potter and Betty S. DelDuca. Sept. 1967. cover title, [1]+18 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17004 D-4176. Static parasitic speed controller for Brayton-cycle turboalternator [with list of references]; by John L. Word, Raymond L. E. Fischer, and Bill D. Ingle. Sept. 1967. cover title, [1]+21 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17005 D-4177. Heat transfer in 30° and 60° half-angle of convergence nozzles with various diameter uncooled pipe inlets [with list of references]; by Donald R. Boldman, Harvey E. Neumann, and James F. Schmidt. Sept. 1967. cover title, [1]+43 p. il. 4°  $\Phi$  Paper, \$3.00.

$\Phi$ For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## NASA technical note TN (series)—Continued

- 17006 D-4178. Experimental heat-transfer study of regeneratively cooled hydrogen-fluorine rocket engine at low chamber pressure [with list of references]; by Arthur N. Curren [and others]. Sept. 1967. cover title, [1]+66 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17007 D-4182. Static aerodynamic characteristics of 3 ram-air-inflated low-aspect-ratio fabric wings [with list of references]; by Sanger M. Burk, jr., and George M. Ware. Sept. 1967. cover title, [1]+34 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17008 D-4184. Effect of ductile cladding on bend transition temperature of wrought tungsten [with list of references]; by Gordon K. Watson. Oct. 1967. cover title, [1]+20 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17009 D-4185. Entry flight aerodynamics from Apollo mission AS-202 [with list of references]; by Ernest R. Hillje. Oct. 1967. cover title, vi+54 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17010 D-4193. Numerical method for studying transient blade motions of rotor with flapping and lead-lag degrees of freedom [with list of references]; by Julian L. Jenkins, jr. Oct. 1967. cover title, [1]+33 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17011 D-4196. Pressures and forces on flare-stabilized bodies in air and in mixture of 85-percent CO<sub>2</sub> and 15-percent air [with list of references]; by Gene P. Menees. Oct. 1967. cover title, [1]+22 p. il. 4°  $\Phi$  Paper, \$3.00.

## NASA technical report R (series).

NAS 1.12: (nos.)

- 17012 263. Temperature, pressure, density and wind measurements in upper stratosphere and mesosphere, 1965 [with list of references]; by W. S. Smith [and others]. Sept. 1967. cover title, iii+91 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17013 266. Fatigue life under random loading for several power spectral shapes [with list of references]; by Sherman A. Clevenston and Roy Steiner. Sept. 1967. cover title, [1]+24 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17014 267. Correlation of friction coefficients for laminar and turbulent flow with ratios of surface to bulk temperature from 0.35 to 7.35 [with list of references]; by Maynard F. Taylor. Sept. 1967. cover title, [1]+18 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17015 268. Numerical results for diffraction of normal shock wave by sphere and for subsequent transient flow [with list of references]; by Richard W. Barnwell. Sept. 1967. cover title, [1]+36 p. il. 4°  $\Phi$  Paper, \$3.00.
- 17016 271. Absolute temperature measurement at microwave frequencies [with list of references]; by George G. Haroules and Wilfred E. Brown III. Sept. 1967. cover title, [1]+34 p. il. 4° [Presented at URSI, International Scientific Radio Union, Commission 1, Stanford University, Stanford, Calif., Dec. 8, 1966.]  $\Phi$  Paper, \$3.00.

## NASA technical translation TT (series).

- 17017 F-494. Helicopters, calculation and design: v. 1. Aerodynamics [with list of references]; by M. L. Mil' et al. Sept. 1967. cover title, xv+489 p. il. 4° [Mashinostroyeniye Publishing House, Moscow, 1966.]  $\Phi$  Paper, \$3.00.  
NAS 1.13/2: F-494
- 17018 Opportunities for participation in space flight investigations, NHB 8030.1A, memorandum change 1. July 24, 1967. 2 p. 4° \* Paper, \$1.75 (including basic handbook and supplementary material for one year); 50c. additional for foreign mailing.  
NAS 1.18: Sp 1/2/ch.1
- 17019 ——— memorandum change 2, Voyager 1973 Mars Mission. July 28, 1967. [2]+ii+35 p. il. 4° \* Paper, \$1.75 (including basic handbook and supplementary material for one year); 50c. additional for foreign mailing.  $\bullet$  Item 830-F  
NAS 1.18: Sp 1/2/ch.2
- 17020 Report of Apollo 204 Review Board to Administrator, National Aeronautics and Space Administration: App. G, pt. 2. [1967.] cover title, G-169 p. il. 4° \* Paper, \$1.25.  $\bullet$  Item 830-C  
L.C. card 67-61354  
NAS 1.2: Ap 4/2/app.G/pt.2
- 17021 Space science and applications program. Oct. 1967 edition. [1967.] cover title, [3]+xvi+[406] p. 4° (NHB 8030.2A.) [Supersedes Dec. 1965 edition (NHB 8030.2).]  $\ddagger$   $\bullet$  Item 830-P  
L.C. card 66-62585  
NAS 1.33: 967
- 17022 Speaking of space & aeronautics. ([Office of Public Affairs.]) [Current significant material relating to U.S. program to provide information for educational community and general public.]  
v. 4, no. 2. Goals for urban America; by James E. Webb. [July 1967.] cover title, 13 p. narrow 8° [Address delivered at colloquium on Urban government in decade ahead at Fels Institute of Local and State Government, University of Pennsylvania, May 23, 1967.]  $\ddagger$   
NAS 1.32: 4/2

\*For Sale by Superintendent of Documents

$\ddagger$ Distribution Made by Issuing Office

$\bullet$ Official Use. Not Available

- 17023 U.S. standard atmosphere, 1962 [ICAO standard atmosphere to 20 kilometers, proposed ICAO extensions to 32 kilometers, tables and data to 700 kilometers], Corrigenda. [1967.] 1 p. 4° † ● Item 830-C  
NAS 1.2: At 6/962/corrig.
- 17024 U.S. standard atmosphere supplements, 1966 [with list of references]. [1967.] xx+289 p. il 4° ([United States Committee on Extension of Standard Atmosphere.]) [Prepared under sponsorship of Environmental Science Services Administration, National Aeronautics and Space Administration, and Air Force. Publication is 2 major sets of tables, those for region below 120 kilometers, and those for 120 to 1,000 kilometers. Colored illustration on front cover.] \* Cloth, \$4.00. ● Item 830-C  
NAS 1.2: At 6/966/supp.

NATIONAL AGRICULTURAL LIBRARY, Agriculture Dept.  
Washington, D.C. 20250

- Agricultural/biological vocabulary. 1st edition. ● Item 95  
A 17.2: V 85/v. (nos.)
- 17025 v. 1. Categorized list [with list of references]. 1967. xix+395 p. \* Paper, \$2.50.  
L.C. card Agr 67-329
- 17026 v. 2. Alphabetical list. 1967. [2]+619 p. 4° \* Paper, \$3.50.  
L.C. card Agr 67-329

NATIONAL ARCHIVES AND RECORDS SERVICE, General Services  
Administration, Washington, D.C. 20408

- 17027 Genealogical records in National Archives. [1967.] [2]+12 p. narrow 8°  
([Publication 67-7.]) † ● Item 569 GS 4.2: G 28/967
- 17028 Guide to records of Italian Armed Forces. 1967. (National Archives.) [Text on p. 2 of cover.] †  
L.C. card A67-7734 GS 4.6/2: It 1/pt.1-3  
pt. 1. xii+146 p. oblong 8°  
pt. 2. xii+133 p. oblong 8°  
pt. 3. xii+170 p. oblong 8°
- 17029 List of record groups in National Archives and Federal records centers, Aug. 1967. [1967.] cover title, iii+46 p. 4° [Replaces list of July 1965.] † GS 4.19: 967
- 17030 Supplement to List of National Archives microfilm publications, 1966; [compiled by Publications Sales Branch]. Aug. 1967. vi+18 p. ([National Archives publication 68-2.]) †  
L.C. card A61-9222 GS 4.2: M 58/966/supp.

NATIONAL BUREAU OF STANDARDS, Commerce Dept.  
Gaithersburg, Md. 20760

- 17031 Microwave and high-frequency bibliography. [June 1967.] 16+[1] p. narrow 8° (Radio Standards Laboratory.) †  
L.C. card 67-62750 C 13.37/4: M 58
- Miscellaneous publications. ● Item 247 C 13.10: (nos.)
- 17032 250. Calibration and test services of National Bureau of Standards, 1965 edition: Insert 14, Notice of change. July 1967. 1 p. 4° [Issued with perforations.] †
- 17033 260. Standard reference materials: Catalog and price list of standard materials issued by National Bureau of Standards. [1967 edition.] Sept. 15, 1967. v+42 p. il. 4° (Office of Standard Reference Materials.) [Supersedes 1965 edition.] \* Paper, 45c.  
L.C. card 64-62975
- 17034 277, supp. 1. Photonuclear data index. Jan. 1965-Apr. 1967 [with bibliographies]: prepared by Photonuclear Data Group, Institute for Basic Standards. Oct. 1967. iv+66 p. 4° \* Paper, 45c.  
L.C. card 66-60027

†For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

National standard reference data series, NSRDS-NBS. ● Item 248-B  
C 13.48:(nos.)

- 17035 10. Selected values of electric dipole moments for molecules in gas phase [with bibliography; by] Ralph D. Nelson, jr., David R. Lide, jr., and Arthur A. Maryott. Sept. 1, 1967. v+49 p. 4° (Category 3, Atomic and molecular properties.) [Supersedes data on dipole moments included in NBS circular 537.] \* Paper, 40c.  
L.C. card 67-60055
- 17036 14. X-ray wavelengths and X-ray atomic energy levels; [by] J. A. Bearden. Sept. 25, 1967. vi+66 p. (Category 3, Atomic and molecular properties.) [Reprinted from Reviews of modern physics, v. 31, no. 1, Jan. 1967.] \* Paper, 40c.

Product standard PS (series). (Office of Engineering Standards Services.)

- 17037 5-66. Porcelain enameled formed steel plumbing fixtures, addendum, May 1967.  
1 p. † ● Item 243 C 13.20/2: 5-66/add.

Technical notes. ● Item 249-A C 13.46:(nos.)

- 17038 355. Correlations for predicting leakage through closed valves [with list of references; by] Jesse Hord. Aug. 1, 1967. iii+15 p. 4° (Cryogenics Division, Institute for Materials Research.) \* Paper, 20c.
- 17039 406. X ray wavelength conversion tables and graphs for qualitative electron probe microanalysis [with one reference; by] Kurt F. J. Heinrich and Mary Ann M. Giles. Sept. 25, 1967. [1]+53 p. 5 pl. 4° \* Paper, 70c.
- 17040 420. Drawings of micrometer U-tube manometers for ranges up to 100 mm of mercury [with list of references; by] A. M. Thomas and J. L. Cross. Aug. 26, 1967. [2]+3 p. 9 p. of pl. 4° (Mechanics Division, Institute for Basic Standards.) \* Paper, 15c.
- 17041 426. Analytical Mass Spectrometry Section, summary of activities, July 1966-June 1967 [with list of references]; edited by William R. Shields. Sept. 15, 1967. vi+53 p. il. 4° \* Paper, 40c.
- 17042 430. Designs for surveillance of volt maintained by small group of saturated standard cells [with list of references; by] W. G. Elcke, J. M. Cameron. Oct. 9, 1967. [2]+19+[1] p. il. 4° \* Paper, 20c.

## NATIONAL LABOR RELATIONS BOARD Washington, D.C. 20570

- 17043 The Board and its decisions as seen from inside of NLRB, remarks of Sam Zagoria, member, National Labor Relations Board, at luncheon of New Jersey Chamber of Commerce and American Association of Industrial Management, Atlantic City, N.J., Oct. 20, 1967. [1967.] [1]+8+[1] p. 4° (R1092.) † LR 1.7: Z 1/15
- 17044 Opportunity knocks at executive suite, remarks of Sam Zagoria, member, National Labor Relations Board, at luncheon of Labor-Management Relations Clinic, sponsored by Associated Industries of Arkansas, Inc. and Arkansas State Chamber of Commerce in cooperation with region 26 (Memphis), National Labor Relations Board, Little Rock, Ark., Sept. 27, 1967. 1967. [1]+9 p. 4° (R-1090.) † LR 1.7: Z 1/14

## NATIONAL LIBRARY OF MEDICINE, Health, Education, and Welfare Dept., Bethesda, Md. 20014

- 17045 Public Health Service film catalog, 1967. [Revised Mar. 1967.] [1967.] xi +[8]+94 p. il. 4° ([Public Health Service Publication 776]; National Medical-Audiovisual Center.) [Supersedes all previous editions.] \* Paper, 75c. ● Item 497-A  
L.C. card 60-61867 FS 2.36/2: 967

## NATIONAL MUSEUM, Smithsonian Institution Washington, D.C. 20560

Bulletin.

- 17046 260. Bathyal and abyssal gammaridean Amphipoda of Cedros Trench, Baja, California [with list of literature cited; by] J. Laurens Barnard. 1967. vi+205 p. il. \* Paper, \$1.00. ● Item 919  
L.C. card 67-62715 SI 3.3: 260

Contributions from National Herbarium. † ● Item 920 SI 3.8:(nos.)

- 17047 v. 34, pt. 4. Taxonomic study of subgenus Podosemum and section Eplcampes of Muhlenbergia (Gramineae) [with list of literature cited]; by Thomas R. Soderstrom. 1967. iii+75-189 p. il. 14 pl.  
L.C. card 67-62120

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# NOVEMBER 1967

- 17048 v. 37, pt. 1. Studies of Pacific Island plants: 17. Genus *Geniostoma* (loganiacea) in New Hebrides, Fiji, Samoa, and Tonga, by Albert C. Smith and Benjamin C. Stone [title page and index]. 1967. [2] leaves.  
 17049 v. 38, pt. 3. Genus *Grammitis* in Ecuador; by Conrad V. Morton. 1967. [1]+85-123 p. 4 p. of pl.  
 L.C. card 67-62724

## Proceedings of National Museum.

- 17050 3621. New crayfish from Alabama caves, with notes on origin of genera *Orconectes* and *Cambarus* (Decapoda: Astacidae) [with list of literature cited]; by Horton H. Hobbs, Jr. 1967. v. 123, cover title, 17 p. il. † ● Item 922  
 SI 3.6: 123/3621  
 17051 Proceedings of National Museum, v. 122, nos. 3581-3600 [title page and contents]. 1967. v. p. † ● Item 922  
 SI 3.6: 22/t.p.& cont.

## NATIONAL PARK SERVICE, Interior Dept. Washington, D.C. 20242

- 17052 Lava Beds National Monument, Calif. [Revised 1967.] [1967.] [2] p. il. oblong 8" folded into narrow 8" size. \* Paper, 10c. ● Item 650  
 I 29.21: L 38/2/967  
 17053 Minute Man National Historical Park, Mass. [1967.] [10] p. il. narrow 24" † ● Item 650  
 I 29.21: M 66/2/967  
 17054 Tuzigoot National Monument, Ariz. [1967.] [2] p. il. narrow 8", folded into oblong 32" size. \* Paper, 10c. ● Item 650  
 I 29.21: T 89/2/967

## NATIONAL RAILROAD ADJUSTMENT BOARD Washington, D.C. 20572

- 17055 Awards 13706-760, 3d division, v. 149. Keenan Printing Company, Chicago, Ill. [1967.] [1]+1028 p. † Third Division, National Railroad Adjustment Board, 220 South State Street, Chicago, Ill. 60604 (Price upon application).  
 L.C. card 36-26212  
 RA 1.9: 149  
 17056 First division, v. 155, awards 20681-775. Keenan Printing Company, Law Printers, Chicago, Ill. [1967.] [1]+1012 p. † National Railroad Adjustment Board, 433 West Van Buren Street, Chicago, Ill. 60607 (Price upon application).  
 L.C. card 36-26211  
 RA 1.7: 155

## NATIONAL SCIENCE FOUNDATION Washington, D.C. 20550

- 17057 Federal support for academic science and other educational activities in universities and colleges, fiscal years 1963-66; prepared [by Office of Economic and Manpower Studies] for Office of Science and Technology. [1967.] vii+137 p. il. 4° (NSF 67-14.) [Title on cover is: Federal support to universities & colleges, fiscal years 1963-66. General note on p. 2 of cover.] \* Paper, 70c. ● Item 834-C  
 L.C. card 66-62976  
 NS 1.2: Ac 1/2/963-66  
 17058 Systems for measuring and reporting resources and activities of colleges and universities [with list of references; edited by Philip H. Tyrrell]. [1967.] xiv+444 p. 4° (NSF 67-15.) \* Paper, \$2.00. ● Item 834-C  
 L.C. card 67-62742  
 NS 1.2: C 68/3

## NATIONAL TRANSPORTATION SAFETY BOARD, Transportation Dept., Washington, D.C. 20590

NOTE.—The National Transportation Safety Board was established in the Transportation Department by Public law 89-670, approved Oct. 15, 1966.

- 17059 Aircraft accident report: Japan Air Lines, Ltd., Douglas DC-8, JA-8006, San Francisco, Calif., Dec. 25, 1965; adopted June 26, 1967. [July 15, 1967.] [3]+18+[1] p. il. 4° (File A-0001.) † TD I.112: Sa 5fr

♣For Sale by Clearinghouse, U.S. Department of  
 Commerce, Springfield, Va. 22151  
 ●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

- 17060 Aircraft accident report: Paul Kelly Flying Service, Inc. Lear Jet 23, N243F, Palm Springs, Calif., Nov. 14, 1965; adopted June 19, 1967. [June 29, 1967.] [3]+15 p. 4° (SA-391; file 2-0649.) † TD 1.112: P 18

## NAVAL ACADEMY, Annapolis, Defense Dept. Annapolis, Md. 21402

- 17061 United States Naval Academy, catalogue, 1967-68. [1967.] viii+252 p. +[2] leaves il. † ● Item 390-A D 208.109: 967-68

## NAVAL AIR SYSTEMS COMMAND, Defense Dept. Washington, D.C. 20360

- 17062 Fatigue of aircraft structures [with lists of references]; by Horace J. Grover. 1966 [published 1967]. xix+335 p. il. (NAVAIR 01-1A-13.) [Prepared for research and technology.] \* Paper, \$1.25. ● Item 374 (Rev)  
L.C. card 67-62674 D 202.2: A1 7/3

## NAVAL FACILITIES ENGINEERING COMMAND, Defense Dept. Washington, D.C. 20360

Design manual DM (series). [Issued in looseleaf form.] ● Item 418-A  
D 209.14/2: (nos.)

- 17063 6. Drawings and specifications [with bibliography]. July 1967. x+[59] p. 4°  
\* Paper, 40c.  
17064 33. Hospital and medical facilities [with bibliographies]. July 1967. ix+[71] p. 4° [Supersedes DM-33, Nov. 1961 and Feb. 1962, and all changes issued.]  
\* Paper, 50c.  
17065 34. Administrative facilities [with list of criteria sources]. July 1967. ix+[29] p. 4° [Supersedes DM-34, Nov. 1961 and Feb. 1962 and all changes issued.] \* Paper, 25c.  
17066 35. Family housing. Aug. 1967. x+[71] p. il. 16 pl. 4° (NAVFAC DM-35.) [Cancels and supersedes Family housing, NAVDOCKS DM-35, Jan. 1965, in its entirety, and all changes issued.] \* Paper, \$1.50.  
17067 Machine shop, machine repairs formulas, engineered performance standards, public works maintenance. Nov. 1966 [published 1967]. cover title, ix+220 p. 4° (NAVFAC P-707.1) [Supersedes Machine shop, machine repair formulas, NAVDOCKS P-707.1, Oct. 1959, and changes thereto.]  
† ● Item 418-A D 209.14: M 18/2  
17068 Radiological countermeasures ashore; [prepared by Naval Radiological Defense Laboratory. July 1967. x+[237] p. il. 4° (NAVFAC P-317.) [Issued in looseleaf form. Cancels and supersedes Radiological recovery of fixed military installations, NAVDOCKS TP-P1-13, Apr. 1958, and all changes.] † ● Item 418-A  
L.C. card 67-62726 D 209.14: R 11/2

## NAVAL OCEANOGRAPHIC OFFICE, Defense Dept. Washington, D.C. 20390

Publications. ● Item 378 (Rev. 1957) D 203.22: (nos.)

- 17069 21. Change 6, June 17, 1967, loose leaf change pages for correcting Sailing directions for West India, v. 1, 3d edition, 1958. [1967.] [353] p. il. 4° [Formerly no. 128. Includes list of effective pages.] † Paper, 35c.  
17070 41. Change 6, July 8, 1967, loose leaf change pages for correcting Sailing directions for Kattegat and The Sound, 1st edition, 1956. [1967.] [236] p. il. 4° [Formerly no. 141A. Includes list of effective pages.] † Paper, 35c.  
17071 51. Change 11, Mar. 4, 1967, loose leaf change pages for correcting Sailing directions for west coasts of Spain, Portugal, and northwest Africa and off-lying islands, 6th edition, 1952. [1967.] [145] p. 4° [Formerly no. 134. Includes list of effective pages. Supersedes any previous list.] † Paper, 35c.  
17072 54. Change 11, July 1, 1967, loose leaf change pages for Mediterranean, v. 3, 3d edition, 1951. [1967.] [300] p. il. 4° [Formerly 153. Includes list of effective pages.] † Paper, 35c.  
17073 63. Sailing directions for west coast of India. 5th edition. 1967. [1]+xv+359 p. il. map in pocket, 4° [Includes list of effective pages. Issued in loose-leaf form. Includes Ceylon, Maldives and Laccadive Islands. † Paper, \$4.50 (including ring binder); \$3.00, contents only.]

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

# NOVEMBER 1967

- 17074 95. Sailing directions for western shores of South China Sea, Singapore Strait to Hong Kong, 5th edition, 1957. Revised edition 1967. 1957 [published 1967]. [1]+xix+449 p. il. 2 p. of maps in pocket, 4° [Includes list of effective pages, and all Changes through no. 11, Mar. 18, 1967. Issued in looseleaf form.] † Paper, \$3.00; with ringbinder \$4.50.
- 17075 117B. Change 16, June 24, 1967, to Radio navigational aids, Pacific and Indian Oceans area. 1967. [99] p. il. 4° [Includes list of effective pages, and Notice to Mariners 25, 1957, issued in looseleaf form.] † Paper, 50c.
- 17076 118B. Change 11, Aug. 19, 1967, Radio weather aids; Pacific and Indian Oceans area, 1st edition. 1967. [74] p. il. 4° [Includes list of effective pages and Notice to mariners 33, 1967. Issued in looseleaf form.] † Paper, 50c.
- 17077 119. Weather station index; July 22, 1967. 6th edition. 1967. vi+[125] p. il. 4° [Includes Notice to mariners 29, 1967.] † Paper, 50c.  
L.C. card 63-62204

## NAVAL PERSONNEL BUREAU, Defense Dept. Washington, D.C. 20390

- 17078 Aviation structural mechanic S 1 & C [with reading list; prepared by Navy Training Publications Center]. [1967 edition.] [1967.] cover title, iv+310 p. il. 4° (Navy training course; NAVPERS 10311-A.) \* Paper, \$2.00.  
● Item 404  
L.C. card 67-62537 D 208.11: Av 5/30/967
- 17079 Guide for professional reading for officers of United States Navy and Marine Corps; compiled by Naval War College, Newport, R.I. 18th edition. 1967. [2]+ii+15 p. 4° (NAVPERS 92356G.) [Issued with perforations.] † ● Item 401-A  
L.C. card 61-61559 D 208.15: P 94/967
- 17080 Navy Nurse Corps, candidate program. [May 1, 1967.] 4 p. il. 4° ([Navy Recruiting Aids Division, RAD 67214.]) † ● Item 403  
D 208.2: N 93/967
- 17081 U.S. Navy uniform regulations, 1959 (NAVPERS 15665), Change 1 (reprint of effective pages only); Mar. 15, 1967. [1967.] 10 p. il. 4° [Issued in looseleaf form.] \* Paper, 10c. D 208.6: Un 3/959/ch.1/eff. pages

## NAVAL RESEARCH OFFICE, Defense Dept. Washington, D.C. 20390

### NRL reports. (Naval Research Laboratory). D 210.8: (nos.)

- 17082 6466. Status of research on lubricants, friction, and wear [with list of references; by] R. C. Bowers and C. M. Murphy. Jan. 19, 1967. cover title, iii+148+[4] p. il. 4° ([NRL problems C02-03 and C02-01, project RR 007-08-44-5501, Air task A33536-501/652-1/F012-03-05, NRL-5R-002, DA M1PR ARD-D-2-64.]) \* Paper, \$1.25.
- 17083 6477. NELIAC-N computer program to calculate components of earth's magnetic field [with list of references; by] G. Chayt, G. Flenner, and M. Brinkman. Jan. 25, 1967. cover title, 20+[4] p. il. 4° ([NRL problem R01-36, SF 019-02-02-7447.]) [Text on p. 2 of cover.] † Paper, \$3.00 (AD 647355).
- 17084 6491. 5th annual progress report, present status of chemical research in atmosphere purification and control on nuclear-powered submarines [articles, with lists of references]; edited by A. L. Alexander and V. R. Platt. Jan. 11, 1967. cover title, ii+52+[4] p. il. 4° ([NRL problems C08-05, C08-18, C08-30, C08-33, project SF 018-08-03, tasks 4092-95, BuWeps SP 89422.]) † Paper, \$3.00 (AD 648505).
- 17085 6522. System for measuring 1st and 2d order probability distributions of signals and noise [with list of references; by] C. McCoy, Jr., and H. L. Peterson. Sept. 11, 1967. iv+32+[4] p. il. 4° ([NRL problem S01-06, project RF 101-03-44-4054.]) †
- 17086 6536. Helium-neon laser discharge parameter study [with list of references; by] Wayne T. Whitney. June 21, 1967. cover title, ii+46+[4] p. il. 4° ([NRL problem R08-45, project RR 008-03-46-5674.]) † Paper, \$3.00 (AD 655437).
- 17087 6543. Tables of spheroidal wave functions: pt. 3, 2d volume of oblate radial functions of 1st and 2d type [with list of references]; by S. Hanish [and others]. Apr. 24, 1967. cover title, xiii+274 p.+[2] leaves, 4° † Paper, \$3.00 (AD 656898).
- 17088 6545. Influence of surface-active material on properties of air bubbles at air/sea interface [with list of references; by] W. D. Garrett. May 8, 1967. cover title, ii+12+[4] p. il. 4° ([NRL problem H01-17, project RR 002-10-45-5052.]) † Paper, \$3.00 (AD 655458).
- 17089 6555. Some factors affecting movement of oil in miniature ball bearings [with list of references; by] C. R. Singletary. July 12, 1967. cover title, ii+12+[4] p. il. 4° ([NRL problems C02-04, C02-10, project Nav Air A320-073/F020-03-01, ONR RR 001-01-43-4751.]) † Paper, \$3.00 (AD 657454).

✦For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

## NRL reports—Continued

- 17090 6558. Accurate and stable numerical solutions to Schrödinger equation [with list of references; by] Carl A. Rouse. June 23, 1967. cover title, ii+22+[4] p. 4° ([NRL problem A01-02, project RR 004-02-42-5300.]) [Sponsored jointly by Office of Naval Research and National Science Foundation.]  $\Phi$  Paper, \$3.00 (AD 655439).
- 17091 6564. Stress-corrosion cracking characteristics of alloys of titanium in salt water [with list of references; by] R. W. Judy, jr., and R. J. Goode. July 21, 1967. [i]+ii+46+[4] p. il. 4° ([NRL problems F01-17 and M04-08E, NONR-610(09), NONR-760(31), and N00014-66-C0365, project SP-01426; ARPA order 878.])  $\Phi$  Paper, \$3.00 (AD 658721).
- 17092 6573. Full-scale fire modeling test studies of light water and protein type foams [with list of references; by] H. B. Peterson [and others]. Aug. 15, 1967. iv+56+[4] p. il. 4° ([NRL problem C08-15, project A34-534-520/652-1/F012-05-04.])  $\Phi$  Paper, \$3.00 (AD 658318).
- 17093 6575. Through-thickness notch ductility and tension properties as function of neutron exposure to simulated pressure vessel wall of A 302-B steel [with list of references; by] Charles Z. Serpan, jr., and J. Russell Hawthorne. June 30, 1967. cover title, ii+16+[4] p. il. 4° ([NRL problem M01-14, project SF020-01-05-0858, RR 007-01-46-5409, AT (49-5)-2110, USA-ERG-3-67.])  $\Phi$  Paper, \$3.00 (AD 658019).
- 17094 6578. Flammability properties of hydrocarbon fuels: pt. 2, Importance of volatile components at low concentration of flammability of liquid fuels [with list of references; by] Wilbur A. Affens. July 10, 1967. cover title, ii+16+[4] p. il. 4° ([NRL problem C01-03, SR 001-06-02-0600, RR 010-01-44-5850.])  $\Phi$  Paper, \$3.00 (AD 657455).
- 17095 6579. Effect of cation on solubilization by oil-soluble sulfonates and applicability of mass law [with list of references; by] Samuel Kaufman. Sept. 5, 1967. cover title, iii+12+[4] p. il. 4° ([NRL problem C02-09, project RR 001-01-43-4750.])  $\dagger$
- 17096 6584. Digital magnetic tape system for recording radar data: [by] P. L. Watkins, J. M. Goodman, and A. M. Knopp. July 24, 1967. cover title, ii+36+[4] p. il. 4° ([NRL problem R02-05, project ONR RF 001-02-41-4001, and ARPA order 32-60, amdt. 7.])  $\Phi$  Paper, \$3.00.
- 17097 Science education program, 1967-68, v. 23. [1967.] cover title, iii+66 p. il. (Naval Research Laboratory.)  $\dagger$  D 210.18:23

## NAVY DEPARTMENT, Defense Dept. Washington, D.C. 20350

- 17098 NAVNEWS 1967 art portfolio, add. 1; [June 1967]. [1967.] 1 p. 3 pl. 4° (NAVSO P-3011; Office of Information.)  $\dagger$  Editorial Services Branch (01-410), Office of Information, Navy Dept., Washington, D.C. 20350 D 201.2: Ar 7/add.1
- 17099 Navy systems design guidelines manual, electronic packaging; [prepared by Trident Laboratories, Inc., Washington, D.C.]. May 1967. cover title, v+159 p.+ii leaves+A-111 p. il. 4° (NAVMAT P3940; Naval Material Command.) [Prepared in accordance with provisions of Ad Hoc Committee on Packaging Naval Electronic Equipment, pursuant to advisement of NMC/SPE Subcommittee on Packaging. Text on p. 2 of cover. Issued in looseleaf form in binder with marginal index tabs on blank cardboard showing titles.] \* Stiffboard, \$3.00.  $\bullet$  Item 370-A D 201.6/12: E1 2
- 17100 Selling to Navy prime contractors: [prepared by Office of Naval Material Command (MAT02E)]. Aug. 1967. cover title, viii+120 p. 4° (NAVMAT P-1030 (8/67).) \* Paper, 60c.  $\bullet$  Item 370 L.C. card 54-61267 D 201.2: Se 4/2/967

## OIL AND GAS OFFICE, Interior Dept. Washington, D.C. 20240

- 17101 Remarks of Onnie P. Lattu, Director of Office of Oil and Gas, Department of Interior to National Oil Fuel Institute, New York City, Oct. 3, 1967. 1967. 6 leaves, 4° ([98519-67.])  $\dagger$  I 64.9: L 35/6

## OUTDOOR RECREATION BUREAU, Interior Dept. Washington, D.C. 20240

- 17102 Outdoor recreation planning for the handicapped [with bibliographies]. Apr. 1967. [6]+3t p. il. 4° (Technical assistance bulletin.) [Prepared

\*For Sale by Superintendent of Documents  
 $\dagger$ Distribution Made by Issuing Office  
 $\dagger$ Official Use. Not Available



# NOVEMBER 1967

in cooperation with National Recreation and Park Association.] \* Paper, 40c. ● Item 657-B-1  
L.C. card 67-62669 I 66.2: H 19

## PACKERS AND STOCKYARD ADMINISTRATION, Agriculture Dept. Washington, D.C. 20250

NOTE.—The Packers and Stockyard Administration was established within the Department of Agriculture by Secretary's memorandum 1613, supplement 1, effective May 8, 1967.

### P&SA (series).

- 17103 1. Broiler industry, economic study of structure, practices and problems: [prepared by staff of Packers and Stockyards Administration]. [Aug. 1967.] cover title, viii+86 p. il. 4° † ● Item 96-A  
L.C. card Agr 67-342 A 96.10: 1

## PATENT OFFICE, Commerce Dept. Washington, D.C. 20231

### Classification definitions. ● Item 252 C 21.3/2: (nos.)

- 17104 class 113. Sheet-metal ware, making; revised by Office of Patent Classification. Revision 1. May 1967. [3]+5 p. 4° \* Paper, 10c.  
17105 class 116. Signals and indicators; revised by Office of Examining and Classifying Control. Revision 1. July 1967. [2]+16 p. 4° [Issued with perforations.] \* Paper, 25c.  
17106 class 178. Telegraphy; revised by Office of Examining and Classifying Control. Revision 1. July 1967. [2]+21 p. 4° [Issued with perforations.] \* Paper, 25c.  
17107 class 179. Telephony; revised by Office of Examining and Classifying Control. Revision 1. July 1967. 2+19 p. 4° [Issued with perforations.] \* Paper, 25c.  
17108 class 340. Communications, electrical; revised by Office of Examining and Classifying Control. Revision 1. July 1967. [2]+33 p. 4° [Issued with perforations.] \* Paper, 50c.

## POST OFFICE DEPARTMENT Washington, D.C. 20260

- 17109 Address by Postmaster General Lawrence F. O'Brien at Post Office Department equal employment opportunity conference, Washington, D.C., Sept. 22, 1967. 1967. 9 leaves, 4° (General release 129.) †  
P 1.27: Ob 6/26  
17110 Address by Postmaster General Lawrence F. O'Brien at Urban Planning Commemorative Stamp Ceremony, Washington, D.C., Oct. 2, 1967. 1967. 7 leaves, 4° (Information Service, General release 142.) †  
P 1.27: Ob 6/27  
17111 Addressing for optical character reader. [1967.] cover title, [11] p. il. 4° †  
● Item 837 P 1.2: Ad 2

### [Commemorative stamp posters.]

NOTE.—Commemorative stamp posters, which will be issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.; 50c. additional for foreign mailing.

- 17112 5-cent Christmas postage stamp, available at your local post office, Nov. 7, 1967. 1967. 10.5 x 8 in. P 1.26/2: C 46/967  
17113 5-cent Thomas Eakins American painting commemorative stamp, available at your local post office, Nov. 3, 1967. 1967. 10.5 x 8 in. P 1.26/2: Ea 5  
17114 5-cent Twin Space commemorative postage stamps, available at your local post office Oct. 2, 1967. 1967. 10.5 x 8 in. P 1.26/2: Sp 1  
17115 Directory of post offices (with ZIP codes). [July 1967.] xv+464 p. 4° ([Publication 26; Bureau of Operations.]) [Revised annually. Last page left blank for notes.] \* Paper, \$2.75. ● Item 839  
L.C. card 55-61389 P 1.10/4: 967

### Methods handbook M series.

- 17116 17. Use and care of revolvers: prepared by Bureau of Chief Postal Inspector. [1967.] iii+27 p. il. 4° \* Paper, 25c. ● Item 843 P 24.6/2: 17/4  
17117 Post Office Department is looking for advice. [1967.] cover title, [10] p. il. oblong 48° [Text on p. 2-4 of cover.] † ● Item 837 P 1.2: Ad 9

☛For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

Page 81

# GOVERNMENT PUBLICATIONS

- 17118 Postal laws [new and revised pages]. [1967.] [40] p. (POD publication 11.)  
[Includes transmittal letter 15. Aug. 15, 1967. Issued in looseleaf form.]  
\* Paper, 15c. ● Item 838 (Rev.) P 1.11/3: 967/trans.15
- [Public information] PI-(series).
- 17119 19. How postal inspection service protects you against mail fraud. Sept. 1967.  
[24] p. il. narrow 8° (Chief Postal Inspector.) † ● Item 837-B  
P 1.36/2: 19/2
- 17120 Restrictions on transportation of letters, private express statutes and interpretations. 5th edition. July 1967. iv+29 p. (POD publication 111;  
Office of General Counsel.) † ● Item 837 P 1.2: L 56/2/967

## PRESIDENT OF THE UNITED STATES Washington, D.C. 20501

- 17121 Action, program guide 1967-68. [1967.] v+26 p. il. (President's Committee  
on Employment of the Handicapped.) † President's Committee on Em-  
ployment of the Handicapped, 7131 Department of Labor Building, Wash-  
ington, D.C. 20210. ● Item 766-C PrEx 1.10/7: 967-68
- National Advisory Commission on Food and Fiber: Technical papers.  
● Item 851-J Pr 36.8: F 73/T 22/v.(nos.)
- 17122 v. 1. Food needs and U.S. agriculture in 1980, analysis of land, labor, and capital  
requirements under varying levels of exports and alternative farm pro-  
grams [with list of references]; by Earl O. Heady and Leo V. Mayer.  
Aug. 1967. xiii+[1]+116 p. il. \* Paper, 50c.
- 17123 v. 3. Food and fiber in Nation's politics; by Charles M. Hardin. Aug. 1967.  
xi+236 p. \* Paper, 75c.
- 17124 v. 5. Agricultural policy, review of programs and needs [articles, with bibliog-  
raphies]; by Frederick V. Waugh [and others]. Aug. 1967. ix+172 p. il.  
\* Paper, 60c.
- 17125 Remarks of Harold Russell, Chairman, President's Committee on Employ-  
ment of the Handicapped, before Interstate Conference of Employment  
Security Agencies, New Orleans, La., Sept. 27, 1967. [1967.] 6 p. 4°  
(President's Committee on Employment of the Handicapped.) † Presi-  
dent's Committee on Employment of the Handicapped, 7131 Department  
of Labor Bldg., Washington, D.C. 20210 PrEx 1.10/2: R 91
- 17126 Rural poverty, hearings before National Advisory Commission on Rural  
Poverty, Memphis, Tenn., Feb. 2 and 3, 1967. Sept. 1967. viii+290 p.  
† Agriculture Department, Washington, D.C. 20250. ● Item 851-J  
L.C. card 67-62737 Pr 36.8: R 88/R 88/967-2
- 17127 — Washington, D.C., Feb. 15-17, 1967. Sept. 1967. vi+494 p. † Agricul-  
ture Department, Washington, D.C. 20250. ● Item 851-J  
L.C. card 67-62736 Pr 36.8: R 88/R 88/967-3

## PRISONS BUREAU, Justice Dept. Washington, D.C. 20537

National prisoner statistics, NPS bulletin.

- 17128 41. Executions, 1930-66. Apr. 1967. [1]+13 p. il. 4° † J 16.23: 41
- 17129 National prisoner statistics: State prisoners, admissions and releases, 1964.  
[1967.] [2]+75 p. il. 4° † J 16.23/2: 964

## PUBLIC DOCUMENTS DIVISION, Government Printing Office Washington, D.C. 20402

- 17130 Brush up on your writing with these selected U.S. Government publications  
[list]. [1967.] [4] p. oblong 48° † ● Item 552 GP 3.22: W 93/2/967
- 17131 List of classes of United States Government publications available for  
selection by depository libraries. Revised Aug. 1, 1967. [1967.] 27 p. 4°  
† ● All depositories. GP 3.24: 967
- Price list PL (series). † ● Item 554 GP 3.9:(nos.)
- 17132 11. Home economics, foods and cooking; Oct. 1967. 57th Edition. [1967.] [2]  
+19 p. il.  
L.C. card 26 26196

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

# NOVEMBER 1967

- 17133 33A. Occupations, professions and job descriptions; Sept. 1967. 18th edition. [1967.] [2] + 17 p.  
L.C. card 48-46746
- 17134 53. Maps, engineering, surveying; Sept. 1967. 55th edition. [1967.] [2] + 21 p.  
il.  
L.C. card 25-26876
- 17135 78. Social security, industrial hazards, health and hygiene, safety for workers, pensions, workmen's compensation and insurance; Sept. 1967. 16th edition. [1967.] ii + 15 p.  
L.C. card 49-46433
- 17136 84. Atomic energy and civil defense; Oct. 1967. 9th edition. [1967.] [2] + 26 p.  
L.C. card 55-63297

## PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept. Washington, D.C. 20201

- 17137 Bibliography of translations in neural sciences, 1950-60; prepared by Richard T. Louttit and Michael J. Hanik. [1967.] [3] + 112 p. 4° ([National Clearinghouse for Mental Health Information] National Institute of Mental Health.) [Title on cover is: Translations in brain sciences, bibliography.] \* Paper, 60c. ● Item 506-A  
L.C. card 67-62741 FS 2.22/13: B 73
- 17138 Bold new approach, film presentation, how a community plans and develops comprehensive mental health center [announcement]. [1967.] [4] p. narrow 8° ([Public Information Branch, National Institute of Mental Health.]) † FS 2.22: M 52/66
- 17139 Directory, poison control centers. [Revised May 1967.] [1967.] iii + 35 p. ([Publication 1278]; Bureau of Health Services, Division of Direct Health Services, National Clearinghouse for Poison Control Centers.) [Text on p. 2 of cover.] \* Paper, 20c. ● Item 485  
L.C. card 62-64891 FS 2.2: P 75/2/967  
Environmental health series: Radiological health.
- 17140 RH-26. Natural environmental radioactivity from radon 22<sup>1</sup> [with list of references]; by John E. Pearson. [May 1967.] vi + 32 p. il. ([Publication 999-RH-26]; Bureau of Disease Prevention and Environmental Control, National Center for Radiological Health.) [Abstract cards attached to back cover.] † Public Inquiries Branch, Public Health Service, Health, Education, and Welfare Dept., Washington, D.C. 20201. ● Item 483-F  
L.C. card 67-60058 FS 2.300: RH-26
- 17141 1966 final reports, State mental health planning; [prepared by Rasma Finlayson and Dorothea L. Dolan]. [Nov. 1966, published 1967.] vi + 208 p. 4° ([Publication 1685; National Clearinghouse for Mental Health Information], National Institute of Mental Health.) † ● Item 507  
L.C. card 67-62744 FS 2.22: M 52/42/966
- 17142 Funeral directors' handbook on death and fetal death registration. [1967.] vi + 39 p. ([Publication 593C; National Center for Health Statistics.]) \* Paper, 20c. ● Item 509 FS 2.106/2: F 96
- 17143 Guide to grant and award programs of National Institutes of Health. [Revised 1967.] July 1967. v + 23 p. ([Publication 1067; National Institutes of Health, Division of Research Grants.]) \* Paper, 15c. ● Item 507-H FS 2.22/15: G 76/967
- 17144 Health consequences of smoking, Public Health Service review, 1967 [with bibliographies]. [1967.] x + 199 p. ([Publication 1696.]) \* Paper, 60c. ● Item 485-A  
L.C. card 67-62521 FS 2.309: 967  
Health information series. ● Item 486 FS 2.50: (nos.)
- 17145 11. Scabies: [prepared by National Communicable Disease Center]. [Revised 1967.] [1967.] [4] p. narrow 8° ([Publication 79.]) \* Paper, \$2.00 per 100; single copy, 5c.
- 17146 41. Malaria. [Revised May 1967.] [1967.] [4] p. il. narrow 8° ([Publication 166.]) \* Paper, \$2.00 per 100; single copy, 5c.
- 17147 110. Cancer of bone: [prepared by Research Information Branch, National Cancer Institute, National Institutes of Health]. [Revised 1967.] [1967.] [6] p. narrow 8°. ([Publication 1070.]) \* Paper, \$2.75 per 100; single copy, 5c.

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## Health information series—Continued

- 17148 111. CF, facts about cystic fibrosis; [prepared by Information Office, National Institute of Arthritis and Metabolic Diseases, National Institutes of Health]. [1967.] [8] p. il. narrow 8" ([Publication 1077.]) \* Paper, \$3.25 per 100; single copy, 5c.
- 17149 Health professions student loan program. [Revised Aug. 1967.] [1967.] [6] p. narrow 8" ([Publication 1347; Division of Health Manpower, Educational Services.]) † ● Item 485 FS 2.2: St 9/2/967
- 17150 Health protection, target of Bureau of Disease Prevention and Environmental Control. [Revised Oct. 1967.] [1967.] vi+30 p. il. 4" ([Publication 1634.]) \* Paper, 30c. ● Item 485 FS 2.2: D 63/9/967-2
- 17151 Health services research centers, purposes & organization. [Aug. 1967.] [4]+8 p. 4" ([Publication 1708; Office of Research and Development, Bureau of Health Services.]) † ● Item 485 FS 2.2: H 34/33
- 17152 Industrial noise, guide to its evaluation and control [with lists of references]; edited by Andrew D. Hosey, Charles H. Powell. [1967.] iv+ [120] p. il. 4" ([Publication 1572; Bureau of Disease Prevention and Environmental Control, National Center for Urban and Industrial Health, Occupational Health Program.]) \* Paper, \$1.50. ● Item 496-A L.C. card 67-62714 FS 2.6/2: N 69
- 17153 List of publications issued by Public Health Service, Jan.-June 1967. [1967.] 5 p. 4" (OM-1885.) † ● Item 481-A FS 2.24/2: 967
- 17154 National Clearinghouse for Mental Health Information: Occupational mental health notes. (National Clearinghouse for Mental Health Information, National Institute of Mental Health.) [Irregular. Abstracts and source material provided under contract by Center for Occupational Mental Health, Department of Psychiatry, New York Hospital-Cornell Medical Center.] † ● Item 507-B-3 FS 2.22/50-3: (date) July 1967—
- 17155 Nurses in public health, number, educational preparation, and other characteristics of nurses employed for public health work in United States, Puerto Rico, Virgin Islands and Guam, Jan. 1966; prepared by Division of Nursing. [Revised 1967.] [1967.] vi+54 p. il. 4" ([Publication 785], Bureau of Health Manpower.) [Prepared in cooperation with Directors of Public Health Nursing, State Health Departments.] \* Paper, 40c. ● Item 493-C FS 2.81: 966 L.C. card 54-60037
- 17156 Partnership for health: Information and policies on grants for comprehensive areawide health planning, sec. 314(b) Public Health Service act, as amended by Public law 89-749. [Aug. 30, 1967.] [3]+21 p. 4" (Office of Surgeon General, Office of Comprehensive Health Planning.) † ● Item 485 FS 2.2: G 76/5
- 17157 Patients in mental institutions, 1965: pt. 1, Public institutions for mentally retarded; prepared by Biometry Branch, Survey and Reports Section, National Institute of Mental Health. [1967.] 82 p. 4" (Publication 1597, pt. 1.) † ● Item 494 FS 2.59: 965/pt.1 L.C. card 43-37617
- 17158 Portfolio of photographs, science teaching aid; [prepared by Research Information Branch, National Cancer Institute, National Institutes of Health]. [1967.] portfolio of 27 pl. large 4" \* Paper, \$1.75. FS 2.22: P 83
- 17159 Procedure for standardization and certification of food-service sanitation survey officers, recommended by Public Health Service. 1967 edition. [1967.] [2]+4+[1] p. 4" ([Publication 1630; Bureau of Disease Prevention and Environmental Control, National Center for Urban and Industrial Health, Environmental Sanitation Program, Milk and Food Branch, Food Sanitation Section.]) † ● Item 490 FS 2.6: F 73/4

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

- 17160 Proceedings of Public Health Service cooperative studies; Renal disease and hypertension, v. 4, 6th annual conferences, Apr. 1967, San Francisco, Calif. (pyelonephritis) and May 1967, Atlanta, Ga. (hypertension). [1967.] x+256 p. 4° (Bureau of Health Services, Division of Direct Health Services.) † ● Item 485  
L.C. card 65-61307 FS 2.2: R 29/2/v.4
- 17161 Psychopharmacology bulletin, v. 4, no. 1, Aug. 1967. [1967.] [2]+62 p. 4° (National Clearinghouse for Mental Health Information.) [Issued irregularly.] † ● Item 507-Z-1 FS 2.22/29: 4/1
- 17162 Short-term training courses under professional nurse traineeship program of Public Health Service. Revised Aug. 1967. [1967.] 14 p. ([Bureau of Health Manpower, Division of Nursing.]) [Supplement B to Publication 1154-1.] † ● Item 485 FS 2.2: N 93/38/supp.967-2
- 17163 Symposium on recent developments in research methods and instrumentation, Oct. 2-6, 1967, Clinical Center Auditorium, National Institutes of Health, Bethesda, Md., held in conjunction with 17th annual research equipment exhibit. [July 1967.] 32+[4] p. il. [Symposium sponsored by National Institutes of Health in cooperation with Washington Sections of American Association of Clinical Chemists, American Chemical Society, American Society for Microbiology, Instrument Society of America, Society for Applied Spectroscopy, Society for Experimental Biology and Medicine. Three pages are left blank for notes.] † ● Item 507  
FS 2.22: R 31/14/967

Technical information bulletin. ● Item 486-H

- 17164 1. Procedure for bacteriological examination of food utensils and/or food equipment surfaces. [June 1967.] [3]+8 p. 4° ([Publication 1631: Bureau of Disease Prevention and Environmental Control, National Center for Urban and Industrial Health, Environmental Sanitation Program, Milk and Food Branch, Food Sanitation Section.]) † FS 2.3/3: 1
- 17165 Treating cancer; [prepared by Research Information Branch, National Cancer Institute, National Institutes of Health]. [Revised 1967.] [1967.] [2]+20 p. il. 12° ([Publication 690.]) [Includes list of related publications from National Cancer Institute.] \* Paper, 20c. ● Item 507  
FS 2.22: C 16/20/967
- 17166 Typological approaches and delinquency control, status report [with list of references]; prepared by Seymour Rubinfeld. 1967. [5]+30 p. 4° ([Publication 1627, National Institute of Mental Health; National Clearinghouse for Mental Health Information.]) \* Paper, 25c. ● Item 507  
L.C. card 67-62713 FS 2.22: D 37

Vital and health statistics: Series 3, Analytical studies. (National Center for Health Statistics.)

- 17167 8. Infant mortality problems in Norway; [by Julie E. Backer and Øystein Aagenaes]. Oct. 1967. [6]+40 p. il. 4° ([Publication 1000, series 3, no. 8.]) \* Paper, 30c. ● Item 500-E  
L.C. card 67-61848 FS 2.85/2: 3/no.8

— Series 11, Data from national health survey. (National Center for Health Statistics.)

- 17168 26. Hearing levels of adults by race, region, and area of residence, United States, 1960-62 [with list of references; by Jean Roberts and David Bayliss]. Sept. 1967. [4]+33 p. il. 4° ([Publication 1000, series 11, no. 26; Division of Health Examination Statistics.]) [Prepared in cooperation with Census Bureau.] \* Paper, 30c. ● Item 500-E  
L.C. card 67-70074 FS 2.85/2: 11/no.26

— Series 12, Data from national health survey. (National Center for Health Statistics.)

- 17169 9. Charges for care in institutions for the aged and chronically ill [with list of references; by Mary Grace Kovar]. Aug. 1967. [4]+51 p. il. 4° ([Publication 1000, series 12, no. 9; Division of Health Records Statistics.]) [Prepared in cooperation with Census Bureau.] \* Paper, 35c. ● Item 500-E  
L.C. card 67-60077 FS 2.85/2: 12/no.9

# GOVERNMENT PUBLICATIONS

Vital and health statistics: Series 13, Data from National Health Survey.  
(National Center for Health Statistics.)

- 17170 2. Utilization of short-stay hospitals, summary of nonmedical statistics, United States, 1965: [by Monroe G. Sirken]. Aug. 1967. [6]+21 p. il. 4° ([Publication 1000, series 13, no. 2; Division of Health Records Statistics.]) \* Paper, 25c. ● Item 500-E  
L.C. card 67-61720 FS 2.85/2: 13/no.2

— Series 20, Data from National Vital Statistics System. (National Center for Health Statistics.)

- 17171 5. Suicide in United States, 1950-64 [with bibliography; by James T. Massey]. Aug. 1967. [4]+34 p. il. 4° ([Publication 1000, series 20, no. 5; Division of Vital Statistics.]) \* Paper, 30c. ● Item 500-E  
L.C. card 67-60024 FS 2.85/2: 20/no.5

— Series 21, Data from National Vital Statistics System. (National Center for Health Statistics.)

- 17172 15. Divorce statistics analysis, United States, 1963 [with list of references; by Alexander A. Plateris]. Oct. 1967. [6]+57 p. il. 4° ([Publication 1000, series 21, no. 13; Division of Vital Statistics.]) \* Paper, 40c. ● Item 500-E  
L.C. card 65-62270 FS 2.85/2: 21/no.13

Workshop series of Pharmacology Section, N.I.M.H.

- 17173 2. Ethnopharmacologic search for psychoactive drugs, proceedings of symposium held in San Francisco, Calif., Jan. 28-30, 1967 [with bibliographies]; Daniel H. Efron, editor-in-chief, Bo Holmstedt, Nathan S. Kline, co-editors. [1967.] xxii+[1]+468 p. il. ([Publication 1645.]) [Sponsored by Pharmacology Section, Psychopharmacology Research Branch, National Institute of Mental Health.] \* Cloth, \$4.00. ● Item 507  
L.C. card 67-62568 FS 2.310: 2

- 17174 Your motorcycleing fun and personal protection. [1967.] [6] p. il. small 4° ([Publication 1632; Bureau of Disease Prevention and Environmental Control, National Center for Urban and Industrial Health, Injury Control Program, Cincinnati, Ohio.]) \* Paper, 5c. ● Item 485  
FS 2.2: M 85/9

## PUBLIC ROADS BUREAU, Transportation Dept. Washington, D.C. 20591

- 17175 Directory, urbanized area transportation planning programs, Apr. 1967. cover title, [1]+47 p. il. 4° (Office of Planning, Urban Planning Division.) [Addenda, revised July 17, 1967, issued Aug. 30, 1967, [1]+7 p., issued also.] †  
L.C. card 67-62698 TD 2.102: Ur 1
- 17176 Drivers licenses, 1966. [1967.] 11 p. il. 4° † TD 2.102: D 83/2
- 17177 Guide for road inventory manual of instructions [with bibliography]. Apr. 1967. [1]+iv+84 p. il. 4° [Issued with perforations. Supersedes Apr. 1949 edition.] † ● Item 265-A TD 2.108: R 53

## RECLAMATION BUREAU, Interior Dept. Washington, D.C. 20240

Engineering monograph. (Water resources technical publication.)

- 17178 3. Welded steel penstocks [with selected bibliography and references by]; Penstocks and Steel Pipe Section, Mechanical Branch Division of Design, Office of Chief Engineer, Denver, Colo.]. [First printing 1949, revised 1966.] [1967.] viii+51 p. il. 4° [First issued under authorship of P. J. Bier.] \* Paper, 40c. ● Item 664-B  
L.C. card 67-62545 I 27.34: 3

- 17179 Federal reclamation projects, 1966 crop report and related data. [1967.] cover title, vi+48 p. il. 4° (Division of Irrigation and Land Use.) †  
● Item 663-A I 27.55: 966  
L.C. card 53-63671

- 17180 — statistical appendix to 1966 crop report and related data. [1967.] cover title, iii+225 p. il. 4° (Division of Irrigation and Land Use.) †  
● Item 663-A I 27.55: 966/app.  
L.C. card 53-63671

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

Research report. (Water resources technical publication.)

- 17181 9. Vibration studies of Monticello Dam [with list of references]; by George C. Rouse and Jack G. Bouwkamp. [1st printing 1967.] [1967.] v. 14 p. il. 4" \* Paper, 20c. ● Item 664-B 127.54:9

**REHABILITATION SERVICES ADMINISTRATION, Health, Education, and Welfare Dept., Washington, D.C. 20201**

NOTE.—The Rehabilitation Services Administration has been assigned to the Social and Rehabilitation Service which was established August 15, 1967, by the Secretary of the Department of Health, Education, and Welfare in a major realignment of Federal welfare rehabilitation and social welfare service programs. The Vocational Rehabilitation Administration was disestablished on the same date.

- 17182 For the disabled, help through vocational rehabilitation. [1967.] 16 p. il. narrow 8" † ● Item 529 FS 13.202: D 63/6/967
- 17183 Law and the deaf, by Lowell J. Myers; edited by Max Friedman. [1967.] vii+225 p. † ● Item 529 L.C. card 67-62677 FS 13.202: D 34/9
- 17184 New life for the blind. [1967.] [19] p. il. narrow 12" † ● Item 529 FS 13.202: B 61/6
- 17185 Rehabilitation record; [Dorothy Rigdon, editor]. [Bimonthly, including annual index. Issued by Vocational Rehabilitation Office and classified FS 13.216:(v.nos.& nos.) prior to v. 8, no. 5, Sept.-Oct. 1967.] \* Paper, \$1.75 a yr., 50c. additional for foreign mailing; single copy 30c. (1-3 yr. subs.) ● Item 530-A FS 17.109:(v.nos.& nos.) v. 8, no. 5— Sept.-Oct. 1967—
- 17186 6 steps forward, 1967 amendments to Vocational rehabilitation act. [1967.] [6] p. narrow 8" † ● Item 529 FS 17.102: St 4

**RURAL ELECTRIFICATION ADMINISTRATION, Agriculture Dept. Washington, D.C. 20250**

- 17187 List of materials acceptable for use on systems of REA electrification borrowers. July 1967. cover title, [297] p. il. 4" (REA bulletin 43-5.) [Issued in looseleaf form. Supersedes all preceding issues including revisions.] \* Paper, \$1.50 (including basic manual and one semiannual supplement); 25c. additional for foreign mailing. ● Item 116-A A 68.6/2: 967 L.C. card 52-61393
- 17188 Number and percentage of farms electrified with central station service by States, 1935, 1940, 1950, and 1967. Oct. 5, 1967. 1 p. oblong 8" (Statistical Services Section, Accounting and Statistics Branch, Program and Administrative Services Division.) † A 68.20: 967
- REA bulletins.
- 17189 43-5. See above, List of materials acceptable for use on Systems of REA electrification borrowers.
- 17190 61-3. Underground rural distribution, 1967 [with bibliographies]. [Revised edition.] June 1967. [6]+45 p. il. 4" [Issued with perforations.] † A 68.3: 61-3/2

**ST. LAWRENCE SEAWAY DEVELOPMENT CORPORATION, Transportation Dept., Massena, N.Y. 13662**

NOTE.—The St. Lawrence Seaway Development Corporation was placed in the Transportation Department by Public law 89-670, approved Oct. 15, 1966.

- 17191 Saint Lawrence Seaway Development Corporation, annual report for year ended Dec. 31, 1966. [1967.] v+16 p. 4" [Also issued as H. doc. 170, 90th Cong., 1st sess.] † ● Item 1074-C TD 6.1: 966 L.C. card 56-61321

**SELECTIVE SERVICE SYSTEM Washington, D.C. 20435**

- 17192 Short course in selective service. [1967.] cover title, i+12 p. 4" [Issued with perforations.] † ● Item 1075 Y 3.Se 4: 2Se 4/2

♣For Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

- 17193 Taking appeals from Selective Service classifications. [Oct. 2, 1967.] [4] p. narrow 12° † ● Item 1075 Y 3.Sc 4: 2Ap 4/967-2

## SMALL BUSINESS ADMINISTRATION Washington, D.C. 20416

Small business bibliographies. † ● Item 901-K SBA 1.3:(nos.)

- 17194 53. Holiday shops; by Jack M. Besser. May 1967. 6 p. il. 4°  
17195 76. Pet shops; by Stan Gores. June 1967. 4 p. il. 4°

## SOCIAL AND REHABILITATION SERVICE, Health, Education, and Welfare Dept., Washington, D.C. 20201

NOTE.—The Social and Rehabilitation Service was established August 15, 1957, in a major realignment of Federal welfare rehabilitation and social service programs by the Secretary of the Department of Health, Education, and Welfare. This new agency will carry out the functions of the Welfare Administration, the Vocational Rehabilitation Administration, the Administration on Aging, and the Mental Retardation Division of the Bureau of Health Services, Public Health Service.

- 17196 Old-Age assistance and aid to families with dependent children, tables on percent of basic needs met for specified types of cases, Jan. 1967. Aug. 1967. [4] p. 4° [Issued with perforations.] † FS 17.2: Of 1

## SOCIAL SECURITY ADMINISTRATION, Health, Education, and Welfare Dept., Washington, D.C. 20201

Health insurance statistics: Current medicare survey report, CMS (series). (Office of Research and Statistics.)

- 17197 1. Medical insurance sample. July 28, 1967. 4+[8] p. 4° † FS 3.28/4: 1  
Research and statistics note, 1967 (series). (Office of Research and Statistics.) † FS 3.28/2: 967/(nos.)

- 17198 12. Measuring early retirement: Revision of benefits series; prepared in Division of Program and Long-Range Studies. Aug. 30, 1967. 4 p. 4°  
17199 13. Reform of French social security system, 1967; prepared by Werner Hasen-berg and Robert W. Weise, jr. Sept. 26, 1967. 6 p. 4°  
17200 14. Net worth of aged; prepared by Benjamin Bridges, jr. Sept. 28, 1967. 8+[4] p. 4°  
17201 15. Independent health insurance plans, 1966; prepared by Louis S. Reed and Willine Carr. Sept. 29, 1967. 4+[4] p. 4°  
17202 16. Some data on medical care of disabled workers. Oct. 2, 1967. 6 p. 4°

Research report. (Office of Research and Statistics.)

- 17203 20. Some economic effects of seasonality in OASDIHI tax payments; by Joseph M. Bonin. [1967.] vii+55 p. il. \* Paper, 25c. ● Item 522-A FS 3.49: 20

SSI—(series).

- 17204 17. Special information about social security for people who receive cash tips. [June 1967.] 5+[1] p. narrow 8° † ● Item 523-B FS 3.52: 17

## SOIL CONSERVATION SERVICE, Agriculture Dept. Washington, D.C. 20250

- 17205 Fall water supply summary for Nevada and Federal-State-private cooperative snow surveys [as of Oct. 1, 1967]; report prepared by Bob L. Whaley [and] Roy E. Malsor, jr. Oct. 8, 1967. [1]+5 leaves+[2] p. il. 4° [Prepared in cooperation with Nevada Department of Conservation and Natural Resources, Division of Water Resources. Text on p. 2-3 of cover.] † Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N.W. Glisan, Portland, Oreg. 97209. A 57.46/14: 967  
17206 1967 fall water supply summary [western United States]; by Water Supply Forecasting Branch, Portland, Oreg. [1967.] [4] p. il. 4° † A 57.46/8: 967  
17207 Soil conservation districts, status of organization by States, approximate acreage, and farms in organized districts. July 1, 1967. [7] leaves, il. 4° [Issued with perforations.] † L.C. card 50-61311 A 57.32: 967

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 17208 Soil survey : Warren County, Tenn. [with list of literature cited ; by George T. Jackson and others]. Sept. 1967. cover title, ii+79 p. il. 59 p. of pl. and maps, 1 tab., 4" [Prepared in cooperation with Tennessee Agricultural Experiment Station. Text on p. 2 of cover.] \* Paper, \$3.00.  
 ● Item 102 (Rev. 1957)  
 L.C. card Agr 67-337 A 57.38 : W 25

Soil survey investigation report.

- 17209 17. Soil survey laboratory data and descriptions for some soils of Wisconsin. Sept. 1967. [4]+225 p. 4" [Prepared in cooperation with Wisconsin Agricultural Experiment Station. Map on p. 4 of cover.] † ● Item 121-A  
 A 57.52 : 17

STATE DEPARTMENT  
 Washington, D.C. 20520

- 17210 Africa, sub-Sahara, selected functional bibliography. [Sept. 1967.] 27 p. 4" (Foreign Service Institute, Center for Area and Country Studies.) †  
 S 1.114/3 : Af 8
- 17211 American foreign policy, current documents, 1964 ; [compiled by John P. Glennon and others]. [Aug. 1967.] lxxi+1406 p. [Publication 8253 ; Historical Office, Bureau of Public Affairs.] \* Cloth, \$4.75. ● Item 875  
 L.C. card 59-64042 S 1.71/2 : 964

Background notes. ([Office of Media Services, Bureau of Public Affairs.])  
 [Issued with perforations.] ● Item 862-B

- 17212 Angola [with bibliography]. [Revised Aug. 1967.] [1967.] 5 p. il. 4" ([Publication 7962.]) \* Paper, 5c. S 1.123 : An 4/967
- 17213 Barbados [with bibliography]. [June 1967.] 4+[1] p. il. 4" ([Publication 8242.]) \* Paper, 5c. S 1.123 : B 23  
 L.C. card 65-60213
- 17214 Liberia [with bibliography]. [Aug. 1967.] 4 p. il. 4" ([Publication 7991]) \* Paper, 5c. S 1.123 : L 61/2/967  
 L.C. card 65-60213
- 17215 Senegal [with bibliography]. [Revised July 1967.] [1967.] 5 p. il. 4" ([Publication 7820.]) \* Paper, 5c. S 1.123 : Se 5/967  
 L.C. card 66-61561
- 17216 U.S.S.R. [with bibliography]. [Revised July 1967.] [1967.] 12+[1] p. il. 4" ([Publication 7842.]) \* Paper, 10c. S 1.123 : Un 33/967  
 L.C. card 66-61561

Department and Foreign Service series.

- 17217 124. Your Department of State. [Revised Sept. 1967.] [1967.] cover title, 16 p. il. narrow 8" ([Publication 7644 ; Office of Media Services, Bureau of Public Affairs.]) \* Paper, 15c. ● Item 863  
 ✓ L.C. card SD 55-206 S 1.69 : 124/3

East Asian and Pacific series. ● Item 870 S 1.38 : (nos.)

- 17218 162. Viet-Nam information notes : no. 7, Viet Cong terror tactics in South Viet-Nam. July 1967. 6+[1] p. il. 4" ([Publication 8259 ; Office of Media Services, Bureau of Public Affairs.]) [Issued with perforations.] \* Paper, 5c.
- 17219 164. Same : no. 9, Prisoners of war. Aug. 1967. 8 p. il. 4" ([Publication 8275 ; Office of Media Services, Bureau of Public Affairs.]) [Issued with perforations.] \* Paper, 5c.
- 17220 166. Path to Viet-Nam, [lesson in involvement] ; by William P. Bundy, Assistant Secretary for East Asian and Pacific Affairs. [Sept. 1967.] [1]+14 p. 4" ([Publication 8295 ; Office of Media Services, Bureau of Public Affairs.]) [Address prepared for delivery before 20th annual congress of National Student Association at College Park, Md., Aug. 15 (press release 177). Reprinted from Department of State bulletin, Sept. 4, 1967. Portraits on cover.] \* Paper, 15c.  
 ✓

- 17221 Foreign affairs research, directory of Governmental resources [with list of reference works, periodicals, and recurring publications]. [Sept. 1967.] cover title, vii+83 p. ([Publication 8277 ; Office of External Research, Bureau of Intelligence and Research.]) \* Paper, 35c. ● Item 876  
 L.C. card 67-61715 S 1.2 : F76a/4/967

Geographic bulletin. (Geographer, Officer of Strategic and Functional Research, Intelligence and Research.)

- 17222 2. Status of world's nations. Revised Aug. 1967. [1967.] cover title, [2]+18 p. 4" ([Publication 7862.]) \* Paper, 20c. ● Item 876-A  
 L.C. card 64-61180 S 1.119/2 : 2/4

# GOVERNMENT PUBLICATIONS

Geographic report: issued by Geographer.

- 17223 13. North America, civil divisions. Aug. 21, 1967. cover title, iv + [2] + 52 p. il. map, 4° ([Bureau of Intelligence and Research, Office of Strategic and Functional Research.]) † S 1.119:13

International boundary studies. (Geographer, [Office of Strategic and Functional Research], Bureau of Intelligence and Research.) †  
S 1.119/3:(nos.)

- 17224 76. Hungary-U.S.S.R. boundary. Apr. 1, 1967. cover title, [1] + 6 p. il. map, 4° (Office of Research in Economics and Science.)  
17225 77. Czechoslovakia-U.S.S.R. boundary. June 15, 1967. cover title, [1] + 4 p., map, 4° (Office of Research in Economics and Science.)

International information and cultural series.

- 17226 93. Cultural presentations USA, 1965-66, report to Congress and the public, by Advisory Committee on the Arts. [Aug. 1967.] cover title, v + [1] + 82 p. il. ([Publication 8254.]) \* Paper, 35c. ● Item 878 S 1.67:93

Treaties and other international acts series. \* Paper, \$10.00 a yr. (approximately 150 issues), \$6.00 additional for foreign mailing; single copies vary in price. ● Item 899 S 9.10:(nos.)

- 17227 6161. Agricultural commodities, sales under title 4, agreement between United States and Afghanistan, signed Kabul Dec. 22, 1966; [entered into force Dec. 22, 1966], with exchange of notes. [1967.] [2] + 6 p. \* Paper, 5c. L.C. card 67-62627  
17228 6173. Agricultural commodities, agreement between United States and Turkey, signed Ankara Apr. 2, 1966; [entered into force Apr. 2, 1966], with exchange of notes. [1967.] [2] + 9 p. \* Paper, 5c. L.C. card 67-62492  
17229 6272. Agricultural commodities, agreement between United States and Republic of Korea, signed Seoul Mar. 25, 1967; [entered into force Mar. 25, 1967]. [1967.] [2] + 13 p. \* Paper, 10c. L.C. card 67-62493  
17230 6274. Defense, winter maintenance of Haines Road, agreement between United States and Canada, effected by exchange of notes signed Ottawa May 10 and June 23, 1967; [entered into force June 23, 1967]. [1967.] [2] + 3 p. \* Paper, 5c. L.C. card 67-62494  
17231 6280. Scientific cooperation, agreement between United States and Italy, signed Washington June 19, 1967; [entered into force June 19, 1967]. [1967.] [2] + 4 p. [English and Italian.] \* Paper, 5c. L.C. card 67-62495  
17232 6281. Alien amateur radio operators, agreement between United States and New Zealand, effected by exchange of notes signed Wellington June 21, 1967; [entered into force June 21, 1967]. [1967.] [2] + 3 p. \* Paper, 5c. L.C. card 67-62628  
17233 6285. Intergovernmental Maritime Consultative Organization (IMCO), amendments to art. 17 and 18 of convention of Mar. 7, 1948, between United States and other governments, adopted by IMCO assembly at London Sept. 15, 1964, [proclaimed by President of United States May 10, 1967; entered into force Oct. 6, 1967]. [1967.] [2] + 8 p. [English, French and Spanish.] \* Paper, 10c. L.C. card 67-62643  
17234 6295. Settlement of veterans claims, agreement between United States and Philippines signed Manila June 29, 1967; [entered into force June 29, 1967]. [1967.] [2] + 2 p. \* Paper, 5c. L.C. card 67-62629  
17235 6298. Single convention on narcotic drugs, 1961, between United States and other Governments, done New York Mar. 30, 1961 [proclaimed by President of United States July 12, 1967; entered into force with respect to United States June 24, 1967]. [1967.] [2] + 184 p. [English, French, Chinese, Russian, and Spanish.] \* Paper, 65c. L.C. card 67-62722  
17236 6301. Education, financing of exchange programs, agreement between United States and Pakistan, amending agreement of Sept. 23, 1950, as amended, effected by exchange of notes, date Rawalpindi and Islamabad, May 2 and June 24, 1967; [entered into force June 24, 1967]. [1967.] [2] + 3 p. \* Paper, 5c. L.C. card 67-62498  
17237 6302. Peace Corps agreement between United States and Dahomey, effected by exchange of notes signed Cotonou June 30 and July 3, 1967; [entered into force July 3, 1967]. [1967.] [2] + 6 p. \* Paper, 5c. L.C. card 67-62503  
17238 6304. Economic assistance, off-shore fishery development project for Viet-Nam, agreement between United States and Food and Agriculture Organization (FAO), effected by exchange of notes, signed Washington and Rome May 26, 1967; [entered into force May 26, 1967]. [1967.] [2] + 4 p. \* Paper, 5c. L.C. card 67-62502  
17239 6305. Parcel post, agreement and regulations of execution between United States and Ethiopia, signed Addis Ababa June 3, 1967, and Washington June 15,

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

## NOVEMBER 1967

1967; [entered into force Sept. 1, 1967]. [1967.] [2]+21 p. \* Paper, 15c.

L.C. card 67-52641

- 17240 6306. Atomic energy, application of safeguards by IAEA to United States-South Africa cooperation agreement, agreement between United States and International Atomic Energy Agency, signed Vienna July 26, 1967; [entered into force July 26, 1967]. [1967.] [2]+11 p. \* Paper, 10c.

L.C. card 67-62544

- 17241 6308. Bahamas long range proving ground, agreement between United States and United Kingdom of Great Britain and Northern Ireland, amending agreements of July 21, 1950, and June 25, 1956, effected by exchange of notes signed Washington July 17, 1967; [entered into force July 17, 1967, effective July 1, 1967]. [1967.] [2]+4 p. \* Paper, 5c.

L.C. card 67-62501

- 17242 6309. Alien amateur radio operators, agreement between United States and El Salvador, effected by exchange of notes, signed San Salvador May 24 and June 5, 1967; [entered into force June 5, 1967]. [1967.] [2]+4 p. [Spanish and English.] \* Paper, 5c.

L.C. card 67-62500

- 17243 6311. United Nations Educational, Scientific and Cultural Organization, amendment to art. 5 of constitution, adopted by General Conference of United Nations Educational, Scientific and Cultural Organization at 12th session, Paris, Nov. 15, 1962; [entered into force Nov. 15, 1962]. [1967.] [2]+1 p. \* Paper, 5c.

- 17244 6313. Vessels, reduction of period of loan, agreement between United States and Japan, effected by exchange of notes signed Tokyo Aug. 8, 1967; [entered into force Aug. 8, 1967]. [1967.] [2]+6 p. [Japanese and English.] \* Paper, 5c.

- 17245 6314. Agricultural commodities, agreement between United States and Israel, signed Washington Aug. 4, 1967; [entered into force Aug. 4, 1967]. [1967.] [2]+15 p. \* Paper, 10c.

L.C. card 67-62544

- 17246 6315. Further extension of international wheat agreement, 1962, protocol between United States and other Governments, open for signature Washington May 15-June 1, 1967; [signed on behalf of United States May 31, 1967; entered into force July 16, 1967]. [1967.] [2]+50 p. [English, French, Spanish, and Russian.] \* Paper, 20c.

L.C. card 67-62646

- 17247 6316. Trade, staging of tariff concessions, agreement between United States and Canada, amending interim agreement of Dec. 17, 1965, effected by exchange of notes signed Geneva June 30, 1967; [entered into force June 30, 1967]. [1967.] [2]+2 p. \* Paper, 5c.

L.C. card 67-62499

- 17248 6324. Cooperative study of polar cap ionosphere, agreement between United States and Canada, effected by exchange of notes, dated Ottawa Aug. 9 and 11, 1967; [entered into force Aug. 11, 1967]. [1967.] [2]+3 p. \* Paper, 5c.

L.C. card 67-62543

- 17249 6325. Civil emergency planning, agreement between United States and Canada, effected by exchange of notes signed Ottawa Aug. 8, 1967; [entered into force Aug. 8, 1967]. [1967.] [2]+6 p. [English and French.] \* Paper, 5c.

L.C. card 67-62504

### STATISTICAL REPORTING SERVICE, Agriculture Dept. Washington, D.C. 20250

- 17250 Irish potatoes, utilization of 1966 crop with comparisons. Sept. 7, 1967. 3 p. 4° (Pot 1-3 (9-67); Crop Reporting Board.) † A 92.11/5: 960

- 17251 Pig crop report, Sept. 1967. Sept. 21, 1967. 8 p. 4° (MtAn 4(9-67); Crop Reporting Board.) [Corrected copy.] † A 92.18/7: 967-3

### TARIFF COMMISSION Washington, D.C. 20436

- 17252 Cast iron soil pipe from Poland, determination of injury in investigation no. AA1921-50 under Antidumping act 1921, as amended. Sept. 1967. cover title, 22 leaves, 4° (TC publication 214.) † TC 1.31/2: P 66

- 17253 Imports of Benzenoid chemicals and products, 1966, United States general imports of intermediates, dyes, medicinals, flavor and perfume materials, and other finished benzenoid products entered in 1966 under schedule 4, pt. 1 of Tariff schedules of United States. Sept. 1967. [3]+97 p. 4° (TC publication 216.) † TC 1.36: 966

- 17254 Sheet glass (blown or drawn flat glass), report to the President on investigation no. TEA-I-EX-4 under sec. 351(d) (3) of Trade expansion act of 1962. Sept. 1967. cover title, ii+52 leaves, il. 4° (TC publication 215; [TC 28595].) † TC 1.2: G 46/8/967

◆For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 91

## GOVERNMENT PUBLICATIONS

- 17255 Stainless steel table flatware, report to the President on investigation no. TEA-I-EX-3 under sec. 351(d)(3) of Trade expansion act of 1962. Sept. 1967. cover title, iii+81 p. 4° (TC publication 217.) †  
TC 1.2: St 1/967
- 17256 Synthetic organic chemicals, United States production and sales of plasticizers, 1966, preliminary. Aug. 1967. cover title, [1]+9 p. 4° †  
TC 1.33/2: P 69
- 17257 Tariff Commission submits report to Automotive Agreement Adjustment Assistance Board in adjustment assistance case pertaining to certain workers of Borg-Warner Corporation's Long Manufacturing Division plant in Detroit, Mich. Sept. 21, 1967. [1]+5 p. 4° (TC publication 218: APTA-W-17.) †  
TC 1.2: Au 8/12
- 17258 Tariff Commission submits report to Automotive Agreement Adjustment Assistance Board in adjustment assistance case pertaining to certain workers of Rockwell-Standard Corporation's bumper division plant in Mishawaka, Ind. Oct. 17, 1967. [1]+5 p. 4° (TC publication 220; APTA-W-18.) †  
TC 1.2: Au 8/13

### TAX COURT

Washington, D.C. 20224

- 17259 Reports of Tax Court, v. 47, Oct. 1, 1966-Mar. 31, 1967; Ella C. Thomas, reporter. 1967. vi+743 p. \* Cloth, \$3.00. ● Item 742  
L.C. card 44-6276  
Ju 11.7: 47

### TENNESSEE VALLEY AUTHORITY

Washington, D.C. 20444

- 17260 Engineering Laboratory research, 1965-66 in fields of civil engineering, mechanical engineering, instrumentation. Norris, Tenn., May 1967. [1]+vi+87 p. il. (Division of Water Control Planning.) [Text on p. 2 of cover.] † Director, TVA Engineering Laboratory, P.O. Box, Norris, Tenn. 37828.  
Y 3.T25: 35/965-66
- 17261 Fertilizer trends, 1967 [with list of references; by] Edwin A. Harre. [1967.] 83 p. il. 4° (National Fertilizer Development Center.) †  
Y 3. T25: 2F 41/6/967
- 17262 Movement of labor between farm and nonfarm sectors and multiple-jobholding by farm operators in Tennessee Valley; [by Wesley G. Smith and Venkareddy Chennareddy]. Mar. 1967. cover title, p. 3-49. (T 67-4AE; National Fertilizer Development Center.) †  
L.C. card 67-62705  
Y 3.T25: 2F 22
- 17263 TVA power 1967. [May 1967.] [2]+28+[1] p. il. [One illustration is colored.] †  
L.C. card 35-26123  
Y 3.T25: 2T 25/30/967

### TRANSPORTATION DEPARTMENT

Washington, D.C. 20590

NOTE.—The Department of Transportation was established by Public Law 89-670, approved Oct. 15, 1966.

- 17264 United States Department of Transportation, its organization & functions. [1967.] [8] p. il. oblong 12° ([Office of Public Affairs.]) † ● Item 982-C-1  
TD 1.2: T 68

### TREASURY DEPARTMENT

Washington, D.C. 20220

- 17265 Current economic happenings, remarks of Joseph W. Barr, Under Secretary of Treasury, to National Conference of Farm Credit Directors, San Antonio, Tex., Sept. 21, 1967. [1967.] 21 p. 4° (F-1034.) †  
T 1.31: B 27/30

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# NOVEMBER 1967

Department circulars. (Fiscal Service, Bureau of Accounts.) †

T 1.4/2: (nos.)

- 17266 653. Offering of United States savings bonds, series E., 7th revision, Mar. 18, 1966 as amended, 1967 supplement. July 12, 1967. 2 p. 4° ● Item 924
- 17267 966, amdt. 1. Regulations relating to submission of certain financial statements by Government agencies. Sept. 13, 1967. [5] p.+2 leaves, 4°
- 17268 Foreign assets control regulations, commodity supplement, cumulative changes, July 1, 1967. 1967. 1 p. 4° (Office of Foreign Assets Control.) † ● Item 926 T 1.10: F 76/966/supp./ch.
- 17269 In times of prosperity, Good Lord preserve us, remarks of Joseph W. Barr, Under Secretary of Treasury, before Boston Economic Club, Boston, Mass., Oct. 4, 1967. [1967.] 9 p. 4° (F-1046.) † T 1.31: B 27/31
- 17270 Quest for liquidity, remarks of Frederick L. Deming, Under Secretary of Treasury for Monetary Affairs, at golden anniversary banquet of Lutheran Brotherhood, Chicago, Ill., Sept. 15, 1967. 1967. 20 p. 4° † T 1.31: D 39/15
- 17271 Remarks of Henry H. Fowler, Secretary of Treasury and United States Governor of International Monetary Fund, before annual meeting of International Monetary Fund, Rio de Janeiro, Brazil, Sept. 26, 1967. [1967.] 14 p. 4° (F-1043.) † T 1.31: F 82/86
- 17272 Remarks by Henry H. Fowler, Secretary of Treasury, at National Press Club luncheon, Washington, D.C., Sept. 21, 1967. [1967.] 16 p. 4° (F-1035.) † T 1.31: F 82/85
- 17273 Treasury decisions under customs and other laws, v. 101, Jan.-Dec. 1966. 1967. v+810 p. il. [Includes decisions T.D. 66-1 through 66-281.] \* Cloth, \$3.00. ● Item 927 T 1.11: 101
- L.C. card 10-30490

## UNITED STATES INFORMATION AGENCY Washington, D.C. 20547

- 17274 United States Information Agency, 28th report to Congress, Jan.-June 1967. [1967.] 16 p. il. 4° † ● Item 672-B 1A 1.1: 28
- L.C. card 54-61257

## UNITED STATES TRAVEL SERVICE, Commerce Dept. Washington, D.C. 20230

- 17275 Decouvrez un nouveau monde de gastronomie, visitez les Etats-Unis. [1964.] 2 p. il. large 4°, folded into narrow 8° size. ([U.S.T.S.-106-F.]) [Illustrations are colored.] † C 47.2: F 73/French
- 17276 Descubra um mundo novo em culinária, visite os E.U.A. [1967.] 2 p. il. large 4°, folded into narrow 8° size ([U.S.T.S.-106-P.]) [Illustrations are colored.] † C 47.2: F 73/Portuguese
- 17277 11th program report, United States Travel Service, annual report of Secretary of Commerce, Jan.-Dec. 1966. 1967. vi+42 p. il. 4° \* Paper, 40c. ● Item 271-A C 47.1: 966-2
- 17278 Reisen sie in eine neue welt der kliche, besuchen sie die USA. [1961.] 2 p. il. large 4°, folded into narrow 8° size. (U.S.T.S.-106-G.) [Illustrations are colored.] † C 47.2: F 73/German
- 17279 Travel a new world of food, see U.S.A. [1964.] 2 p. il. large 4°, folded into narrow 8° size. ([U.S.T.S.-106-E.]) [Illustrations are colored.] † C 47.2: F 73
- 17280 Viaje por un nuevo mundo de manjares, visite los Estados Unidos. [1964.] [2] p. il. large 4°, folded into narrow 8° size. ([U.S.T.S.-106-S.1]) [Illustrations are colored.] † C 47.2: F 73/Spanish

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 93

(GOVERNMENT PUBLICATIONS)

UPPER GREAT LAKES REGIONAL COMMISSION

2001 Wisconsin Ave., N.W., Washington, D.C. 20235

NOTE.—The Upper Great Lakes Regional Commission has been established by the Secretary of Commerce under authority of Public law 89-136, approved August 26, 1965.

- 17281 Upper Great Lakes Regional Commission, new approach to economic development, [1967.] [8] p. il. narrow 8° † Y 3.Up6:2 Ec 7

VETERANS ADMINISTRATION

Washington, D.C. 20420

- 17282 Index to Veterans Administration publications. July 1, 1967. cover title, viii+236 p. 4° (VA index 1-03-1.) [Issued with perforations. Supersedes previous edition.] † ● Item 986  
L.C. card 49-54463 VA 1.20:967

Research monograph.

- 17283 9. County veteran population, Dec. 1966; [prepared by Edward Schneider assisted by Frank Van Buskirk]. [1967.] cover title, vi+82 p. 4° (Reports and Statistics Service, Office of Controller.) † ● Item 989-F  
L.C. card 67-62535 VA 1.48/2:9

VA monograph (series).

- 17284 10-1. Notes on biometry in medical research; by Donald Mainland. July 1967. cover title, [1]+22 p. 4° (Research Support Centers; Research and Education in Medicine, Department of Medicine and Surgery.) † ● Item 989-F  
VA 1.48:10-1

VA pamphlets. † ● Item 988

VA 1.19:(nos.)

- 17285 21-64-1. Educational assistance for sons and daughters of deceased or disabled veterans. Revised Sept. 1967. [1967.] [6] p. il. narrow 12°  
17286 26-6. To home-buying veteran, guide for veterans planning to buy or build homes with GI loans. Revised [edition]. Aug. 1967. ii+29 p.  
17287 30-1. Careers in automatic data processing in Veterans Administration. Revised Aug. 1967. [1967.] cover title, 13 p. il. 4° (Department of Data Management.) [Text and another illustration on p. 2 and 3 of cover.]

VETERANS REEMPLOYMENT RIGHTS OFFICE, Labor Dept.

Washington, D.C. 20210

- 17288 Reemployment rights, information sheet. [1967.] 4 p. narrow 8° ([OVR-600 (rev. 2-66).]) † L 25.2: R 25/6/966

VOCATIONAL REHABILITATION ADMINISTRATION, Health,  
Education, and Welfare Dept.

NOTE.—The Vocational Rehabilitation Administration was disestablished and its functions transferred to Rehabilitation Services Administration effective August 15, 1967.

WAGE AND HOUR AND PUBLIC CONTRACTS DIVISIONS,

Labor Dept., Washington, D.C. 20210

- 17289 1966 amendments to Fair labor standards act, basic provisions, extent of coverage, economic effects [articles]. [1967.] [17] p. il. 4° † L 22.2: F 15/11  
17290 How Fair labor standards act as amended in 1966 applies to soft drink industry. June 1967. [2]+19 p. il. narrow 8° (WHPC publication 1219.) † ● Item 777 L 22.2: So 2  
17291 Questions and answers about Fair labor standards act, as amended in 1966. July 1967. [2]+29 p. 4° (WHPC publication 1214.) † ● Item 777 L 22.2: F 15/9

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

NOVEMBER 1967

**WATER RESOURCES COUNCIL**  
1025 Vermont Ave., N.W., Washington, D.C. 20005

NOTE.—The Water Resources Council was established by Public law 89-80, approved July 22, 1965.

- 17292 Alternative institutional arrangements for managing river basin operations, [report of Task Force on Institutional Arrangements for River Basin Management]. Aug. 1967. [6]+8+[1] p. 4° \* Paper, 15c.  
Y 3.W 29: 2R 52

**WEATHER BUREAU, Commerce Dept.**  
Washington, D.C. 20235

- 17293 Weather radar manual (WBAN) : pt. A, National weather radar network observing and reporting procedures. Aug. 1967. [40] p. il. 4° [Prepared in cooperation with Air Weather Service, Air Force Dept., and Naval Weather Service, Navy Dept. Issued in looseleaf form.] \* Paper, 30c.  
● Item 275-E C 30.6/2: R 11/2/pt.A
- 17294 ——— pt. B, Weather radar fundamentals and applications [with lists of references]. Aug. 1967. ix+[164] p. il. 4° [Prepared in cooperation with Air Weather Service, Air Force Dept., and Naval Weather Service, Navy Dept. Issued in looseleaf form.] \* Paper, \$1.25. ● Item 275-B  
C 30.6/2: R 11/2/pt.B

**WOMEN'S BUREAU, Labor Dept.**  
Washington, D.C. 20210

- 17295 Laws on sex discrimination in employment, Federal civil rights act, title 7, State fair employment practices laws. Apr. 1967. cover title, 13 p. 4° ([WB-297.]) † L 13.2: Se 9
- 17296 Negro woman in United States, new roles, new challenges [from address by Mary Dublin Keyserling, director, Women's Bureau, Department of Labor, to National Association of Colored Women's Clubs convention, July 27, 1966, Oklahoma City, Okla.]. [1967.] 10 p. 4° ([WB-68-40.]) [Figures have been updated to those available as of Aug. 1, 1967.] †  
L 13.12: K 52/23/rev.-2

**WORK PROGRAMS BUREAU, Labor Dept.**  
Washington, D.C. 20210

NOTE.—The Bureau of Work Programs has been established under the Manpower Administration of the Labor Department.

- 17297 I see a future. [1967.] 14 p. il. oblong 24° † ● Item 783-D-1 L 32.2: F 98
- 17298 To choose or not to choose, address by Mark Battle, Administrator, Bureau of Work Programs, before Chicago Committee on Urban Opportunity, NYC A GO-GO, Chicago, Ill., Aug. 31, 1967. 1967. 9 p. 4° † L 32.9: B 32





# MONTHLY CATALOG

OF UNITED STATES  
GOVERNMENT PUBLICATIONS



---

DECEMBER 1967

Number 875

---

Entries 17299-18255  
and Annual Index January-December 1967

Issued by the SUPERINTENDENT OF DOCUMENTS

---

U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402 : 1967

L.C. Card 4-18088

FOR SALE BY THE SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT  
PRINTING OFFICE, WASHINGTON, D.C. 20402. PRICE 50 CENTS PER COPY  
EXCEPT DECEMBER (INDEX) ISSUE, WHICH VARIES IN PRICE  
SUBSCRIPTION PRICE \$4.50 PER YEAR (INCLUDING INDEX)  
\$1.50 ADDITIONAL FOR FOREIGN MAILING  
THIS ISSUE \$2.00.

# New Classification Numbers

## Assigned January—December 1967

NOTE.—New classes appearing for the first time in this issue of the Monthly Catalog are listed in *italics*.

	Forest Service.
A 13.62/11-3: date.....	Pacific Southwest Forest and Range Experiment Station: List of available publications.
A 13.63/13-2: CT.....	Southeastern Forest Experiment Station: Bibliographies and lists of publications.
A 13.65/14-2: CT.....	Intermountain Forest and Range Experiment Station: Bibliographies and lists of publications.
	Federal Extension Service.
A 43.39: CT.....	Note to agents (series).
A 43.40: nos.....	FES aid: Sanitation series.
	Agricultural Research Service.
A 77.230/2: date.....	Reported incidence of arthropod borne encephalitis of equine in United States in calendar year.
A 77.242: date.....	Equine piroplasmosis report, fiscal year.
	Consumer and Marketing Service.
A 88.6/5: nos.....	USDA-C&MS visual aids (series).
A 88.11/10-3: date.....	Mill margins report [new series] (monthly).
A 88.15/23: date.....	List of plants operating under USDA poultry and egg inspection and grading programs.
	NOTE.—See, for earlier class, A 88.2: P 86/2/ (date).
A 88.16/20: date.....	Working reference of livestock regulatory establishments stations and officials (monthly).
	NOTE.—See, for earlier class, A 77.221/2: (date).
	Packers and Stockyards Administration.
A 96.1: date.....	Annual report.
A 96.2: CT.....	General publications.
A 96.3: -8: Reserved	
A 96.9: v.nos.& nos.....	Packers and stockyards resumé (biweekly).
	NOTE.—See, for earlier class, A 88.16/5-2: (v.nos.& nos.).
A 96.10: nos.....	P&SA (series).
	Commerce Department.
C 1.53: nos.....	State Technical Services newsletter.
	NOTE.—Issued by Office of State Technical Services.
C 1.53/2: date.....	Office of State Technical Services annual report.
	Census Bureau.
C 3.134/a: CT.....	Statistical abstract of United States (separates).
C 3.134/3: date.....	Pocket data book (biennial).
C 3.239: letters & nos.....	Current selected services reports: Monthly selected services receipts.
C 3.240: nos.....	Data access descriptions: Matching studies series MS.

D 1.42: nos	Data access descriptions: Automated address coding guide and data retrieval series AAC. Coast and Geodetic Survey.
C 4.53: CT	Addresses.
C 13.20/2: nos	National Bureau of Standards.
C 13.36/6: date	Product standards.
C 13.50: nos	Technical news from Department of Commerce National Bureau of Standards.
C 21.3/2: nos	News for users of NBS standard reference materials.
C 21.3/2: nos	Patent Office.
C 30.59/46: v.nos.& nos	Classification definitions.
C 30.82: nos	NOTE.—Formerly entitled Classification bulletins, C 21.3: (nos.).
C 31.244/6: date	Environmental Science Services Administration.
C 31.258: nos	Hourly precipitation data: Hawaii.
C 42.15/2: nos	Weather Bureau.
C 42.27: nos	Technical notes.
C 42.27/2: nos	Civil Aeronautics Board.
C 46.26: date	Briefs of accidents, U.S. civil aviation (monthly).
C 47.11: CT	Regional air cargo workshop.
C 52.6: CT	International Commerce Bureau.
C 52.13: nos	Foreign market reports service listing.
C 52.15: letters-nos	Paris Air Show newsletter.
C 52.15/2: nos	Paris Air Show news fillers.
C 52.16: v.nos.& nos	Economic Development Administration.
C 52.17: date	Research review.
C 52.18: nos	United States Travel Service.
C 52.19: Reserved	Maps.
C 52.20: nos	Environmental Science Services Administration.
C 52.21: nos	Regulations, rules, and instructions.
CC 1.45: nos	Monographs.
CR 1.6: CT	ESSA technical reports.
CR 1.6/2: CT	ESSA technical memorandums.
CR 1.11: CT	Data report, meteorological rocket network firings (monthly).
CS 1.48/2: nos	Federal Plan for Meteorological Services and Supporting Research (annual).
CS 1.73: Reserved	Solar-geophysical data, IER-FB-(series) (monthly).
CS 1.74: date	ESSA professional papers.
CS 1.75: date	WB/BC (series).
D 1.13/2-2: nos	Federal Communications Commission.
D 1.19/3: date	CATV requests filed pursuant to sec. 74.1107(a) of the rules, public notice.
D 1.41: Reserved	Civil Rights Commission.
D 1.42: nos	Regulations, rules, and instruction.
D 5.9/3: Reserved	Handbooks, manuals, guides.
D 5.9/4: CT	Urban studies.
	Civil Service Commission.
	BEM pamphlets.
	Federal employment of women (quarterly).
	Coordinator's scoreboard, review of what's new in placement of the handicapped.
	NOTE.—See, for earlier class, CS 1.2: C78.
	Defense Department.
	Armed services procurement regulation supplements ASPS-(series).
	Digest, annotated and digested opinions, U.S. Court of Military Appeals.
	Shock and vibration monograph series.
	Joint Chiefs of Staff.
	Monograph series.

D 5.15: Reserved	
D 5.16: date_____	Industrial College of the Armed Forces: Perspectives in defense management.
	Defense Intelligence Agency.
D 5.201:-207: Reserved	
D 5.208: date_____	DoD aeronautical chart updating manual (CHUM) (monthly).
	NOTE.—See, for earlier class, D 301.59/4:(date).
	Army Department.
D 101.11/2: nos_____	Strategic Communications Command: Technical manuals, CCTM—(series).
D 101.66: v.nos.& nos_____	Transportation proceedings (monthly).
	Engineers Corps (Army).
D 103.42/5: nos_____	Coastal Engineering Research Center: Technical reports.
	NOTE.—See, for earlier class, D 103.15:(nos.).
D 103.45: date_____	Stages and discharge of Mississippi River and tributaries in Vicksburg District (annual).
	NOTE.—Statistics formerly included in Stages and discharges of Mississippi River and its outlets and tributaries. D 103.309:(date).
D 103.45/2: date_____	Stages and discharges of Mississippi River and tributaries in Memphis District (annual).
	NOTE.—Statistics formerly included in Stages and discharges of Mississippi River and its outlets and tributaries. D 103.309:(date).
D 103.45/3: date_____	Stages and discharges of Mississippi River and tributaries in St. Louis District (annual).
	NOTE.—Statistics formerly included in Stages and discharges of Mississippi River and its outlets and tributaries. D 103.309:(date).
	Lake Survey (Army).
D 103.203/2: nos_____	Bulletins, B—(series).
D 103.210: nos_____	Miscellaneous papers.
	Navy Department.
D 201.18: v.nos.& nos_____	Civilian manpower management, journal of Navy and civilian personnel management (quarterly).
	Naval Air Systems Command.
D 202.16: Reserved	
D 202.17: date_____	Employment opportunities.
	NOTE.—See, for earlier class, D 217.9:(date).
	Naval Oceanographic Office.
D 203.25:-26: Reserved	
D 203.27: CT_____	Posters.
	Medicine and Surgery Bureau (Navy).
D 206.10/2: Reserved	
D 206.10/3: nos_____	U.S. Naval Submarine Medical Center: Special reports.
	Naval Facilities Engineering Command.
D 209.1/2: date_____	Progress report, fiscal year.
	Naval Research Office.
D 210.6/2: CT_____	Handbooks, manuals, guides.
D 210.14/3: Reserved	
D 210.14/4: v.nos.& nos_____	Training device developments.
D 210.23:-24: Reserved	
D 210.25: nos_____	Test & evaluation reports.
	Oceanographer of Navy, Office of.
D 218.1: date_____	Annual report.
D 218.2: CT_____	General publications.
	Air Force Department.
D 301.72: v.nos.& nos_____	Driver (monthly).
D 301.73: v.nos.& nos_____	Air Force Comptroller (quarterly).
	Federal Reserve System Board of Governors.
FR 1.17/3: date_____	Debits, demand deposits, and turnover at 233 individual centers (monthly).
FR 1.34/4: date_____	Automobile instalment credit developments.
FR 1.45/2:-3: Reserved	
FR 1.45/4: CT_____	Bibliographies and lists of publications.

## Public Health Service.

FS 2.3/2: Reserved	
FS 2.3/3: nos.-----	Technical information bulletins.
FS 2.6/4: Reserved	
FS 2.6/5: CT-----	Air quality criteria.
FS 2.22/13-5: v.nos.& nos.-----	Artificial kidney bibliography (quarterly).
FS 2.22/50-2: Reserved	
FS 2.22/50-3: date-----	National Clearinghouse for Mental Health Information: Occupational mental health notes.
FS 2.22/50-4: date-----	— Mental health program reports.
FS 2.22/50-5: date-----	— Mental health digest.
FS 2.22/53-2: date-----	Diabetes literature index, annual index issue.
FS 2.85/4: v.nos.& nos.-----	Life tables (bound volumes).
FS 2.92/2: Reserved	
FS 2.92/3: date-----	Bulletin of courses, training program, National Center for Air Pollution Control.
FS 2.98/3: date-----	National Conference on Air Pollution: Communicator (irregular).
FS 2.106/2: CT-----	Handbooks, manuals, guides relating to vital statistics.
FS 2.123: date-----	Health resources statistics (annual).
FS 2.216/2: date-----	National Library of Medicine.
	National Library of Medicine current catalog quarterly cumulation.
	NOTE.—Prior to Jan.-Mar. 1967 issue classified and sold as part of the subscription to the bi-weekly cumulation (FS 2.216: (v.nos.& nos.)).
	Public Health Service.
FS 2.306: Reserved	
FS 2.307: date-----	Air quality data from national air sampling networks and contributing State and local networks (annual).
FS 2.308: nos.-----	CCPM pamphlets.
FS 2.309: date-----	Health consequences of smoking, Public Health Service review.
FS 2.310: nos.-----	Workshop series of Pharmacology Section, N.I.M.H.
	Social Security Administration.
FS 3.28/4: nos.-----	Health insurance statistics, CMS (series).
FS 3.50: Reserved	
FS 3.51: date-----	Directory of providers of services: Home health agencies.
FS 3.51/2: date-----	— Hospitals.
FS 3.51/3: date-----	— Extended care facilities.
FS 3.52: nos.-----	Social security information SSI- (series).
FS 3.52/2: nos.-----	TIB (series).
	Education Office.
FS 5.73/2: date-----	Public school finance program [compilations].
FS 5.77: nos.-----	Research in education (monthly).
FS 5.78: v.nos.& nos.-----	Community service and continuing education, Title 1, Higher education act of 1965.
FS 5.79: date-----	Title 1, Elementary and secondary education act of 1965, States report (annual).
FS 5.80: nos.-----	Status of compliance, public school districts, 17 southern and border States, reports (monthly).
FS 5.81: date-----	Higher education reports.
FS 5.82: date-----	Report on cooperative research to improve the Nation's schools (annual).
	Food and Drug Administration.
FS 13.128: v.nos.& nos.-----	FDA papers (monthly).
FS 13.128/a: CT-----	— (separates).
FS 13.129: CT-----	FDA's life protection series.
FS 13.130: nos.-----	Bureau of Drug Abuse and Control: Fact sheets.
FS 13.131: CT-----	Addresses.
	Welfare Administration.
FS 14.17/4: CT-----	Studies in delinquency.

- FS 14.219: date----- Family Services Bureau.  
Impact on public assistance caseloads of (a) Training programs under Manpower development and training act and Area redevelopment act, and (b) Public assistance work and training programs (quarterly).  
NOTE.—See, for earlier publication, FS 14.202: P 96/6/963-64.
- FS 15.13: CT----- Aging Administration.  
Federal financial assistance for projects in aging.
- FS 17.1: date----- Social and Rehabilitation Service.  
Annual report.
- FS 17.2: CT----- General publications.
- FS 17.101: date----- Rehabilitation Services Administration.  
Annual report.
- FS 17.102: CT----- General publications.
- FS 17.103: -108: Reserved
- FS 17.109: v.nos. & nos----- Rehabilitation record.  
NOTE.—See, for earlier class, FS 13.216:(v. nos. & nos.).
- FS 17.201: date----- Children's Bureau.  
Annual report.  
NOTE.—See, for earlier class, FS 14.101:(date).
- FS 17.202: CT----- General publications.  
NOTE.—See, for earlier class, FS 14.102:(CT).
- FS 17.203: -207: Reserved
- FS 17.208: CT----- Handbooks, manuals, guides.  
NOTE.—See, for earlier class, FS 14.108:(CT).
- FS 17.209: v.nos. & nos----- Children.  
NOTE.—See, for earlier class, FS 14.109:(v. nos. & nos.).
- FS 17.210: nos----- Publications (numbered).  
NOTE.—See, for earlier class, FS 14.111:(nos.).
- FS 17.301: date----- Aging Administration.  
Annual report.  
NOTE.—See, for earlier class, FS 15.1:(date).
- FS 17.302: CT----- General publications.  
NOTE.—See, for earlier class, FS 15.2:(CT).
- FS 17.303: -308: Reserved
- FS 17.309: nos----- Aging.  
NOTE.—See, for earlier class, FS 15.10:(nos.).
- GA 1.16: CT----- General Accounting Office.  
Bibliographies and lists of publications.
- GS 4.20: nos----- National Archives and Records Service.  
National archives microfilm publications, pamphlet accompanying microcopy.
- HH 1.15/3: v.nos. & nos----- Housing and Urban Development Department.  
Consumer relations newsletter.
- HH 1.23/3: nos----- Housing and planning references, new series.
- HH 1.27: nos----- HUD IP-(series).
- HH 1.28: nos----- HUD MP-(series).
- HH 1.29: nos----- HUD PG-(series).
- HH 1.30: date----- Housing and urban development notes (bi-monthly).  
NOTE.—Formerly entitled Urban renewal notes, HH 7.12:(date).
- HH 1.31: nos----- HUD TS-(series).
- HH 1.32: CT----- Country report series.
- I 1.69/4: Reserved Interior Department.
- I 1.69/5: letters-nos----- Land appeals.
- I 1.69/6: letters-nos----- Indian appeals.
- I 1.69/7: letters-nos----- Contract appeals.
- I 1.84/2: Reserved
- I 1.84/3: nos----- Fact sheet: Sources of Indian and Eskimo Arts and Crafts.
- I 1.86: date----- Telephone directory.

	Geological Survey.
I 19.15/5: bk.no./chap.no.-----	Techniques of water-resources investigations.
I 19.46/2-2: date-----	River temperatures at selected stations in Pacific Northwest (weekly).
I 19.46/2-3: date-----	River temperatures (°F.) at selected stations in Pacific Northwest (monthly).
I 19.55: date-----	Activities of Water Resources Division of California, fiscal year.
	Indian Affairs Bureau.
I 20.12/2: CT-----	Handbooks, manuals, guides.
I 20.53: v.nos.& nos-----	Downdraft.
	Reclamation Bureau.
I 27.10/5: nos-----	Bibliographies (numbered).
	Mines Bureau.
I 28.43/3: date-----	International petroleum annual.
I 28.76/2: date-----	Cobalt, quarterly.
I 28.110: date-----	Shipments of asphalt (annual).
I 28.113: date-----	Safety in mineral industries, annual.
I 28.114: CT-----	Laws.
	Bonneville Power Administration.
I 44.12: date-----	Advance program (annual).
	Fish and Wildlife Service.
I 49.8/6: nos-----	Food fish situation & outlook, CEA-F (series).
I 49.8/7: Reserved	
I 49.8/8: nos-----	Shellfish situation and outlook, CEA-S (series).
I 49.69: nos-----	Fish distribution reports.
	Federal Water Pollution Control Administration.
I 67.5: CT-----	Laws.
	NOTE.—See, for earlier class, FS 16.5:(CT).
I 67.7: date-----	Press releases.
I 67.13: date-----	Water pollution control research and training grants.
	NOTE.—See, for earlier class, FS 2.64/7:(date)
I 67.13/2: date-----	Water pollution control research and training grants, index.
	NOTE.—See, for earlier class, FS 16.2: R 31.
I 67.14: CT-----	Bibliographies and lists of publications.
I 67.15: date-----	Building for clean water (annual).
	NOTE.—See, for earlier class, FS 16.9:(date).
	Justice Department.
J 1.32: date-----	Annual report to the President and the Congress on activities under Law enforcement assistance act of 1965.
	Community Relations Service.
J 23.7: date-----	CRS media relations, newspapers, magazines, radio, television.
	NOTE.—See, for earlier class, C 50.7/2:(date).
	Labor Department.
L 1.39/6: date-----	Manpower research projects (annual).
	NOTE.—See, for earlier class, L 1.2: M 31/26.
L 1.54/2: date-----	Information from Plans for Progress.
L 1.56: Reserved	
L 1.57: nos-----	Department of Labor program reports.
	Labor Statistics Bureau.
L 2.61/9: date-----	Wholesale price index, preliminary estimate (monthly).
L 2.71/3: nos-----	NE regional reports.
L 2.86/2: date-----	Wage trends in occupational groups in metropolitan areas, summary release (annual).
	NOTE.—See, for earlier class, L 2.2: W 12/34/ (date).
L 2.90: date-----	Summary of manufacturing earnings series.
	NOTE.—See, for earlier class, L 2.71: 229.
	Employment Security Bureau.
L 7.67: CT-----	Bibliographies and lists of publications.



- L 7.68: date----- Directory of local employment security offices (annual).  
Women's Bureau.
- L 13.22/2: date----- Background facts on women workers in United States (irregular).  
NOTE.—See, for earlier class, L 13.2: W 84/39/ (date).  
Labor Standards Bureau.
- L 16.7/3: nos----- How to inspect charts.
- L 16.47/6: CT----- Maritime safety data for the stevedoring industry.
- L 16.50/2: nos----- Labor law series.
- L 16.51/3-2: nos----- Suggested safe practices for longshoremen (irregular).
- L 16.51/6: nos----- Technical reference, Department of Labor safety training programs, TR-LS (series).
- L 16.51/7: nos----- Chemical safety data sheet, Department of Labor safety programs, CDS-LS-(series).
- L 16.51/8: Reserved
- L 16.51/9: nos----- Off the job safety, Department of Labor safety programs, OJS LS (series).
- L 16.52: date----- Highlights, safety standards activity (annual).  
Employees' Compensation Bureau.
- L 26.6/2: CT----- Handbooks, manuals, guides.  
Work Programs Bureau.
- L 32.1: date----- Annual report.
- L 32.2: CT----- General publications.
- L 32.3:-8: Reserved
- L 32.9: CT----- Addresses.  
Library of Congress.
- LC 1.30/7: v.nos.& nos----- Accessions list: Ceylon (quarterly).  
National Labor Relations Board.
- LR 1.6/3: date----- National Labor Relations Board field manual.
- LR 1.8/5: date/nos----- Digest of decisions of National Labor Relations Board CS-(series) (bimonthly).  
National Aeronautics and Space Administration.
- NAS 1.1/3: date----- Year in review at Goddard Space Flight Center.  
NOTE.—See, for earlier class, NAS 1.2: G54/4/ (date).
- NAS 1.29/2: nos----- AEC-NASA tech briefs.
- NAS 1.34: date----- Publication of Goddard Space Flight Center.
- NAS 1.35: v.nos.& nos----- Reliability abstracts and technical reviews (monthly).
- NAS 1.36: date----- NASA BITS [brief ideas, thoughts, suggestions] (semiannual).  
National Foundation on the Arts and the Humanities.
- NF 1.1: date----- Reports.
- NF 1.2: CT----- General publications.  
National Endowment for the Arts.
- NF 2.1: date----- Annual report.
- NF 2.2: CT----- General publications.  
National Endowment for the Humanities.
- NF 3.1: date----- Annual report.
- NF 3.2: CT----- General publications.  
Post Office Department.
- P 1.40:-42: Reserved
- P 1.43: v.nos.& nos----- Postal life (bimonthly).  
President of United States.
- PrEx 1.10: CT----- President's Committee on Employment of the Handicapped: General publications.  
NOTE.—See, for earlier class, L 16.44/2:(CT).
- PrEx 1.10/2: CT----- Addresses.  
NOTE.—See, for earlier class, L 16.44/3:(CT).

PrEx 1.10/3 : -10/5 : Reserved

PrEx 1.10/6 : date----- President's Committee on Employment of the Handicapped: Annual national ability counts contest [announcement].

NOTE.—See, for earlier class, L 16.44/2: Ab 5/2/date.

PrEx 1.10/7 : date----- ——— Program guide.

NOTE.—See, for earlier class, L 16.44/2: P 94/ (date).

PrEx 2.6/2 : CT----- Budget Bureau.  
Handbooks, manuals, guides.

PrEx 2.11 : nos----- Statistical reporter.

Special Representative for Trade Negotiations,  
Office of.

PrEx 9.7 : date----- Press releases.

Economic Opportunity Office.

PrEx 10.9/3 : CT----- Community action (series).

PrEx 10.10/2 : Reserved

PrEx 10.10/3 : v.nos. & nos----- Job Corps staff newsletter.

PrEx 10.13 : v.nos. & nos----- VISTA volunteer.

PrEx 10.17 : v.nos. & nos----- Law in action (monthly).

PrEx 10.18 : date----- Annual report of legal services program of Office of Economic Opportunity to American Bar Association.

PrEx 10.19 : v.nos. & nos----- Traveler/El viajero, quarterly newsletter for migrant and seasonal farm workers.

NOTE.—Printed in English and Spanish.

PrEx 10.20 : CT----- So . . . you want to be (series).

PrEx 10.21 : date----- VISTA fact book.

PrEx 11. Reserved

National Council on Marine Resources and Engineering Development.

PrEx 12.1 : date----- Annual report.

PrEx 12.2 : CT----- General publications.

State Department.

S 1.1/4 : date----- Annual report of Visa Office.

S 1.40/2 : CT----- Handbooks, manuals, guides.

S 1.40/3 : Reserved

S 1.40/4 : CT----- Discussion guide, tape-recorded Department of State briefings.

International Development Agency.

S 18.36 : nos----- Industry profiles, accession notices.

Peace Corps.

S 19.15 : Reserved

S 19.16 : date----- Peace Corps program directory.

Smithsonian Institution.

SI 1.23 : v.nos. & nos----- Smithsonian journal of history (quarterly).

SI 1.24 : nos----- Smithsonian torch (monthly).

National Museum.

SI 3.1/2 : date----- Natural History Museum annual report.

National Portrait Gallery.

SI 11.1 : date----- Annual report.

SI 11.2 : CT----- General publications.

Treasury Department.

T 1.11/3 : v.nos. & nos----- Customs bulletin (weekly).

NOTE.—Replaces Treasury decisions, T 1.11/2: (v.nos. & nos.).

Internal Revenue Service.

T 22.19/6 : nos----- Revenue procedures.

T 22.25/3 : trans.nos----- Internal revenue bulletin index-digest quarterly system: Service 1, Tax matters other than alcohol, tobacco, and firearms.

Tariff Commission.

TC 1.33/2 : CT----- Synthetic organic chemicals, United States production and sales of [various products], preliminary.

	Transportation Department.
TD 1.1: date-----	Annual report.
TD 1.2: CT-----	General publications.
	National Transportation Safety Board.
TD 1.101: date-----	Annual report.
TD 1.102: CT-----	General publications.
TD 1.103: -108: Reserved	
TD 1.109: date-----	Briefs of accidents, U.S. civil aviation, (monthly).
	NOTE.—See, for earlier class, C 31.244/6: (date).
TD 1.110: CT-----	Addresses.
TD 1.111: Reserved	
TD 1.112: CT-----	Aircraft accident reports.
	NOTE.—See, for earlier class, C 31.213: (CT).
	Federal Highway Administration.
TD 2.1: date-----	Annual report.
TD 2.2: CT-----	General publications.
	Public Roads Bureau.
TD 2.101: date-----	Annual report.
	NOTE.—See, for earlier class, C 37.1: (date).
TD 2.102: CT-----	General publications.
	NOTE.—See, for earlier class, C 37.2: (CT).
TD 2.103: Reserved	
TD 2.104: nos-----	Hydraulic engineering circulars.
	NOTE.—See, for earlier class, C 37.4/2: (nos.).
TD 2.105: CT-----	Laws.
	NOTE.—See, for earlier class, C 37.5: (CT).
TD 2.106: CT-----	Regulations, rules, and instructions.
	NOTE.—See, for earlier class, C 37.6: (CT).
TD 2.107: Reserved	
TD 2.108: CT-----	Handbooks, manuals, guides.
	NOTE.—See, for earlier class, C 37.6/2: (CT).
TD 2.109: v.nos.& nos-----	Public roads, journal of highway research.
	NOTE.—See, for earlier class, C 37.8: (v.nos.& nos.).
TD 2.110: date-----	Highway statistics (annual).
	NOTE.—See, for earlier class, C 37.17: (date).
TD 2.110/2: date-----	— summaries.
	NOTE.—See, for earlier class, C 37.17/2: (date).
TD 2.111: nos-----	Highway planning notes.
	NOTE.—See, for earlier class, C 37.26: (nos.).
	National Highway Safety Bureau.
TD 2.201: date-----	Annual report.
TD 2.202: CT-----	General publications.
	Motor Carrier Safety Bureau.
TD 2.301: date-----	Annual report.
	NOTE.—See, for earlier class, IC 1 mot.1: (date).
TD 2.302: CT-----	General publications.
	NOTE.—See, for earlier class, IC 1 mot.2: (CT).
TD 2.303: -308: Reserved	
TD 2.309: nos-----	Motor carrier accident investigation reports.
	NOTE.—See, for earlier class, IC 1 mot.18: (nos.).
TD 2.310: date-----	Accidents of large motor carriers of property.
	NOTE.—See, for earlier class, IC 1 mot.2: Ac 2/6/(date).
	Federal Railroad Administration.
TD 3.1: date-----	Annual report.
TD 3.2: CT-----	General publications.
TD 3.3: -8: Reserved	

TD 3.9: date_____	Summary of accidents reported by all line-haul and switching and terminal railroad companies, statement M-400. NOTE.—See, for earlier class, IC 1 ste.31: (date).
TD 4.1: date_____	Federal Aviation Administration. Annual report. NOTE.—See, for earlier class, FAA 1.1: (date).
TD 4.2: CT_____	General publications. NOTE.—See, for earlier class, FAA 1.2:(CT).
TD 4.3: -5: Reserved	
TD 4.6: pt.nos_____	Federal aviation regulations. NOTE.—See, for earlier class, FAA 1.6/8: (pt. nos.).
TD 4.7: Reserved	
TD 4.8: CT_____	Handbooks, manuals, guides. NOTE.—See, for earlier class, FAA 1.8:(CT).
TD 4.8/2: nos_____	FAA handbooks (numbered). NOTE.—See, for earlier class, FAA 1.8/2: (letters & nos.).
TD 4.9: v.nos.& nos_____	FAA aviation news (monthly). NOTE.—See, for earlier class, FAA 1.41/2: (v. nos.& nos.).
TD 4.10: nos_____	FAA airworthiness directive. NOTE.—See, for earlier class, FAA 1.28: (nos.).
TD 4.10/2: date_____	Summary of airworthiness directives for small aircraft. NOTE.—See, for earlier class, FAA 1.28/2: (date).
TD 4.10/3: date_____	Summary of airworthiness directives for large aircraft. NOTE.—See, for earlier class, FAA 1.28/3: (date).
TD 4.11: v.nos.& nos_____	International notams. NOTE.—See, for earlier class, FAA 1.26: (v. nos.& nos.).
TD 4.12: pt.nos./date_____	Airmen's information manual. NOTE.—See, for earlier class, FAA 3.13/3: (pt. nos./date).
TD 4.13: date_____	Status of Federal aviation regulations. NOTE.—See, for earlier class, FAA 1.18:(date).
TD 4.14: date_____	Airport activity statistics of certificated route air carriers (semiannual). NOTE.—See, for earlier class, C 31.251:(date).
TD 4.15: date_____	Aircraft type certificate data sheets and specifications. NOTE.—See, for earlier class, FAA 1.20:(date).
TD 4.16: v.nos.& nos_____	Pacific airman's guide and chart supplement (monthly). NOTE.—See, for earlier class, FAA 1.25/5: (v. nos.& nos.).
TD 4.17: date_____	FAA publications. NOTE.—See, for earlier class, FAA 1.10:(date).
TD 4.18: date_____	Census of U.S. civil aircraft (annual). NOTE.—See, for earlier class, FAA 1.35/2: (date).
TD 4.18/2: date_____	United States civil aircraft register (semi-annual). NOTE.—See, for earlier class, FAA 1.35/3: (date).
TD 4.19: date_____	FAA air traffic activity. NOTE.—See, for earlier class, FAA 1.27:(date).

- TD 4.19/2: date----- Air traffic patterns for IFR and VFR aviation.  
NOTE.—See, for earlier class, FAA 1.27/4: (date).
- Airports Service.
- TD 4.101: date----- Annual report.  
NOTE.—See, for earlier class, FAA 8.1:(date).
- TD 4.102: CT----- General publications.  
NOTE.—See, for earlier class, FAA 8.2:(CT).
- TD 4.103: -108: Reserved
- TD 4.109: date----- National airport plan, fiscal year.  
NOTE.—See, for earlier class, FAA 8.11:(date).
- Aviation Medicine Office.
- TD 4.201: date----- Annual report.  
NOTE.—See for earlier class, FAA 7.1:(date).
- TD 4.202: CT----- General publications.  
NOTE.—See, for earlier class, FAA 7.2:(CT).
- TD 4.203: -208: Reserved
- TD 4.209: nos----- Aviation medical education series.  
NOTE.—See, for earlier class, FAA 7.13:(nos.).
- TD 4.210: nos----- [Aviation medical reports] AM (series).  
NOTE.—See, for earlier class, FAA 7.12:(nos.).
- Air Traffic Service.
- TD 4.301: date----- Annual report.  
NOTE.—See, for earlier class, FAA 3.1:(date).
- TD 4.302: CT----- General publications.  
NOTE.—See, for earlier class, FAA 3.2:(CT).
- TD 4.303: -307: Reserved
- TD 4.308: CT----- Handbooks, manuals, guides.  
NOTE.—See, for earlier class, FAA 3.8/2:(CT).
- TD 4.309: v.nos----- International flight information manual.  
NOTE.—See, for earlier class, FAA 3.13: (v.nos.).
- TD 4.310: date----- Location identifiers.  
NOTE.—See, for earlier class, FAA 3.10:(date).
- Flight Standards Service.
- TD 4.401: date----- Annual report.  
NOTE.—See, for earlier class FAA 5.1:(date).
- TD 4.402: CT----- General publications.  
NOTE.—See, for earlier class, FAA 5.2:(CT).
- TD 4.403: -407: Reserved
- TD 4.408: CT----- Handbooks, manuals, guides.  
NOTE.—See, for earlier class, FAA 5.8/2:(CT).
- TD 4.409: date----- General aviation inspection aids, summary and supplements.  
NOTE.—See, for earlier class, FAA 1.31:(date).
- Coast Guard.
- TD 5.1: date----- Annual report.  
NOTE.—See, for earlier class, T 47.1:(date).
- TD 5.2: CT----- General publications.  
NOTE.—See, for earlier class, T 47.2:(CT).
- TD 5.3: -5: Reserved
- TD 5.6: CT----- Regulations, rules, and instructions.  
NOTE.—See, for earlier class, T 47.8:(CT).
- TD 5.7: Reserved
- TD 5.8: CT----- Handbooks, manuals, guides.  
NOTE.—See, for earlier class, T 47.8/3:(CT).
- TD 5.9: v.nos./date----- Light list.  
NOTE.—See, for earlier class, T 47.52:(v.nos./ date).

TD 5.10 : date & nos.....	Notice to mariners relating to Great Lakes and tributary waters west of Montreal (weekly). NOTE.—See, for earlier class, T 47.20 : (date & nos.).
TD 5.11 : date.....	Boating statistics (annual). NOTE.—See, for earlier class, T 47.54 : (date).
TD 5.12 : date.....	Monthly supplement to Merchant vessels of United States. NOTE.—See, for earlier class, T 17.11 : (date).
TD 5.13 : v.nos.& nos.....	Proceedings of Merchant Marine Council. NOTE.—See, for earlier class, T 47.31 : (v.nos.& nos.).
TD 5.14 : v.nos.& nos.....	Coast Guard reservist (monthly). NOTE.—See, for earlier class, T 47.47 : (v.nos.& nos.).
TD 5.15 : date.....	Cadet profiles. NOTE.—See, for earlier class, T 47.2 : C 11/ (date).
TD 5.16 : date.....	Coast Guard Academy catalogue. NOTE.—See, for earlier class, T 47.53 : (date).
TD 5.17 : nos.....	Engineer's digest (quarterly). NOTE.—See, for earlier class, T 47.30 : (nos.).
TD 6.1 : date.....	St. Lawrence Seaway Development Corporation. Annual report. NOTE.—See, for earlier class, Y 3.Sa 2 : 1/ (date).
TD 6.2 : CT.....	General publications. NOTE.—See, for earlier class, Y 3.Sa 2 : 2 (CT).
VA 1.46/2 : date.....	Veterans Administration. Servicemen's group life insurance program, annual report.
VA 1.47 : nos.....	Search, administrative research bulletins, ARB—(series).
VA 1.48 : nos.....	VA monographs.
VA 1.48/2 : nos.....	Research monographs.
Y 3.Ad 9/8 : 8 CT.....	Advisory Commission on Intergovernmental Relations. Handbooks, manuals, guides.
Y 3.At 7 : 56/date.....	Atomic Energy Commission. Nuclear industry. NOTE.—See, for earlier class, Y 3.At 7 : 2N 88/13/ (date).
Y 3.C 63/2 : 1/date.....	Coastal Plains Regional Commission. Annual report.
Y 3.C 63/2 : 2 CT.....	General publications.
Y 3.C 63/2 : 3-8 Reserved	
Y 3.C 63/2 : 9 CT.....	Addresses.
Y 3.Eq 2 : 7-2/date.....	Equal Employment Opportunity Commission. EEOC reports, a clearinghouse service for business newsletters and periodicals.
Y 3.Eq 2 : 8 CT.....	Handbooks, manuals, guides.
Y 3.Eq 2 : 10-2/date.....	Annual digest of legal interpretations.
Y 3.Ex 7/3 : 6 CT.....	Export-Import Bank of Washington. Regulations, rules, and instructions.
Y 3.F 31/16 : 9-2/nos.....	Federal Council for Science and Technology. ICO informal reports. NOTE.—Issued by Interagency Committee on Oceanography.
Y 3.F 31/16 : 12/nos.....	ICAS reports.
Y 3.F 31/18 : 1/date.....	Federal Committee on Pest Control. Annual report.
Y 3.F 31/18 : 2 CT.....	General publications.
Y 3.F 31/18 : 3-8 Reserved	

Y 3.F 31/18 : 9/v.nos.& nos-----	Pesticide monitoring journal (quarterly). Interdepartmental Committee on Status of Women.
Y 3.In 8/21 : 3-7 Reserved	
Y 3.In 8/21 : 7-2/date-----	Progress—American women. Lewis and Clark Trial Commission.
Y 3.L 58 : 1/date-----	Report.
Y 3.L 58 : 2 CT-----	General publications.
Y 3.L 58 : 3-6 Reserved	
Y 3.L 58 : 7/date-----	Press releases.
Y 3.T 25 : 35/date-----	Tennessee Valley Authority. Engineering Laboratory research (annual). United States-Puerto Rico Commission on Status of Puerto Rico.
Y 3.Un 3/5 : 1/date-----	Report.
Y 3.Un 3/5 : 2 CT-----	General publications. Upper Great Lakes Regional Commission.
Y 3.Up 6 : 1/date-----	Annual report.
Y 3.Up 6 : 2 CT-----	General publications. Water Resources Council.
Y 3.W 29 : 1/date-----	Report.
Y 3.W 29 : 2 CT-----	General publications.
Y 3.W 29 : 3-6 Reserved	
Y 3.W 29 : 7/date-----	Press releases. House Resolution 1, Select Committee pursuant to, House.
Y 4.H 81/5 : CT-----	Publications.

## Discontinued Series

A 77.226 : nos-----	Agricultural Research Service. Biological products notices (monthly). NOTE.—Discontinued with no. 134, Feb. 12, 1965. Replaced by Veterinary Biologics Division notices, A 77.212/2 : (nos.).
A 85.11/4 : nos-----	Commodity Exchange Authority. Futures trading and open contracts on Chicago Mercantile Exchange [in eggs and butter] (daily). NOTE.—Discontinued with no. 252, Dec. 30, 1966.
C 3.164 : 785/date-----	Census Bureau. [Foreign trade report]: FT 785, U.S. exports & imports by air (monthly). NOTE.—Discontinued with issue for calendar year 1965; beginning Jan. 1966, replaced in part by FT 350, U.S. general imports, commodity, country, and method of transportation, C 3.164 : 350/ (date), and by FT 750, U.S. exports, commodity, country, and method of transportation, C 3.164 : 750/ (date).
C 41.39 : date-----	Business and Defense Services Administration. Motor truck production, industry report (monthly). NOTE.—Discontinued with Feb. 1966 issue.
D 203.7 : date-----	Naval Oceanographic Office. Notice to aviators, United States Navy (bi-weekly). NOTE.—Discontinued with no. 20, Sept. 26, 1966.
D 217.9 : date-----	Naval Weapons Bureau. Employment opportunities (bimonthly). NOTE.—Discontinued with Mar. 1, 1966 issue.
FHL 1.9 : date-----	Federal Home Loan Bank Board. Mortgage recording letter (monthly). NOTE.—Discontinued with Feb. 1965 issue.

- FR 1.24/5: date----- Federal Reserve System Board of Governors.  
Monthly department store sales by departments.  
NOTE.—Discontinued with Dec. 1965 issue, released Feb. 24, 1966.
- FS 2.209/3: v.nos.& nos----- Public Health Service.  
Bibliography of medical translations (semi-monthly).  
NOTE.—Discontinued with v.3, no.24, Dec. 30, 1966.
- HH 7.12: date----- Housing and Urban Development Department.  
Urban renewal notes (bimonthly).  
NOTE.—Discontinued with July-Aug. 1966 issue. Issued in expanded format as Housing and urban development notes and classified as HH 1.30: (date), beginning with Sept.-Oct. 1966.
- I 28.43/2: date----- Mines Bureau.  
International petroleum quarterly.  
NOTE.—Discontinued with May 1966 issue.
- L 2.8: date----- Labor Statistics Bureau.  
Wholesale price index (weekly).  
NOTE.—Discontinued with report for week ended Dec. 27, 1966, issued Jan. 6, 1967.
- LC 2.9/2: date----- Library of Congress.  
World list of future international meetings, pt. 2, Social, cultural, commercial, humanistic (quarterly, with interim monthly issued listing changes).  
NOTE.—Discontinued as separate publication with Nov. 1966 issue. Beginning with Jan. 1967 issue, published in combined format with Part 1, LC 2.9: (date).
- SBA 1.4/2: nos----- Small Business Administration.  
Products list circular, new products development for small business (monthly).  
NOTE.—Discontinued with no. 66-10, Oct. 1966.
- T 1.11/2: v.nos.& nos----- Treasury Department.  
Treasury decisions under customs, certain internal revenue, narcotic, and other laws, and decisions of Customs Court and Court of Customs and Patent Appeals (weekly).  
NOTE.—Discontinued with vol. 101, no. 50. Replaced by Customs bulletin, T 1.11/3: (v.nos.& nos.).
- Y 3.At7: 37/v.nos.& nos----- Atomic Energy Commission.  
Reactor fuel processing, technical progress review (quarterly).  
NOTE.—Discontinued with 1966 Fall issue, vol. 9, no. 4.

### Corrections for Previous Monthly Catalogs

- Mar. 1964. Entry 4769, Report to Congress of United States: Review of certain activities of government of Virgin Islands of United States, fiscal year 1962. Correct class to read GA 1.13: V 81/962.
- Oct. 1966. Entry 15398, Foreign funds control, regulations and related documents, May 19, 1966. Correct class to read T 1.10: F 76/2/966.
- Nov. 1966. Entry 16908, Fact sheet on the educational attainment of nonwhite women. Change class to read L 13.2: Ed 8/4/966.
- Apr. 1967. Entry 5963, United States Department of Commerce promotes economic growth, Guidebook to commerce, agency of business. Change class to read C 1.8/3: C 73/967-2.
- Entry 7203, Summaries of trade and tariff information, prepared in terms of Tariff schedules of United States (TSUS): Schedule 1, Animal and vegetable products, v. 11, Tobacco and tobacco products. Correct class to read TC 1.26/2: 1/11.



- May 1967. Entry 8774, Foreign assets control, regulations and related documents, commodity supplement, May 8, 1967. Correct class to read T 1.10: F 76/964/supp.-2.
- June 1967. Entry 10057, Planning for home health services, summary of developments in home health care. Change class to read FS 2.2: H 75/7/967.
- Aug. 1967. Entry 13094, Smoking and illness. (Publication 1662.) Correct class to read FS 2.2: Sm 7/7/967.
- Entry 13185, Fact sheet on educational attainment of nonwhite women. Change class to read L 13.2: Ed 8/4/967.
- Sept. 1967. Page 160, Chicago Public Library. Correct date of designation to read 1876.
- Page 175, Fort Vancouver Regional Library. Correct date of designation to read 1962.
- Oct. 1967. Entry 15209, Foreign agricultural economic report 35. Correct price to read \* Paper, 25c.
- Nov. 1967. Entry 16032, Metropolitan area statistics. Correct class to read C 3.134/a: M 567.
- Entry 17263, TVA power 1967. Correct class to read Y 3.T 25: 30 P 87/967.
- Entry 17268, Foreign assets control regulations, commodity supplement, cumulative changes, July 1, 1967. Correct class to read T 1.10: F 76/964/supp.-2/ch.



# Classified List of Government Authors

	Beginning Entry
Agriculture Department.....	17304
Agricultural Research Service.....	17299
Consumer and Marketing Service.....	17680
Economic Research Service.....	17710
Foreign Agricultural Service.....	17792
Forest Service.....	17793
Rural Electrification Administration.....	18199
Soil Conservation Service.....	18212
Statistical Reporting Service.....	18234
American Battle Monuments Commission.....	17366
Arms Control and Disarmament Agency.....	17371
Atomic Energy Commission.....	17390
Civil Aeronautics Board.....	17445
Civil Service Commission.....	17453
Commerce Department.....	17469
Business and Defense Services Administration.....	17415
Census Bureau.....	17418
Economic Development Administration.....	17708
Environmental Science Services Administration.....	17738
Coast and Geodetic Survey.....	17465
Weather Bureau.....	18253
International Commerce Bureau.....	17853
Maritime Administration.....	17907
National Bureau of Standards.....	18075
Clearinghouse for Federal Scientific and Technical Information.....	17464
Patent Office.....	18117
Congress.....	17485
Economic Joint Committee.....	17562
House of Representatives.....	17565
Agriculture Committee.....	17583
Armed Services Committee.....	17590
Banking and Currency Committee.....	17594
District of Columbia Committee.....	17596
Education and Labor Committee.....	17599
Government Operations Committee.....	17602
Interior and Insular Affairs Committee.....	17604
Interstate and Foreign Commerce Committee.....	17605
Judiciary Committee.....	17606
Post Office and Civil Service Committee.....	17607
Public Works Committee.....	17611
Science and Astronautics Committee.....	17612
Veterans' Affairs Committee.....	17613
Ways and Means Committee.....	17614

	Beginning Entry
Congress—Continued	
Senate	17615
Aging, Special Committee on	17633
Agriculture and Forestry Committee	17634
Appropriations Committee	17635
Armed Services Committee	17638
Banking and Currency Committee	17641
Commerce Committee	17645
Foreign Relations Committee	17650
Government Operations Committee	17654
Interior and Insular Affairs Committee	17656
Judiciary Committee	17658
Labor and Public Welfare Committee	17663
Post Office and Civil Service Committee	17671
Public Works Committee	17673
Small Business, Select Committee on	17677
Court of Claims	17686
Defense Department	17687
Air Force Department	17338
Armed Forces Information and Education	17367
Army Department	17372
Civil Defense Office	17450
Engineers Corps	17730
Military Academy, West Point	17910
Joint Chiefs of Staff	17858
Navy Department	
Marine Corps	17904
Naval Facilities Engineering Command	18095
Naval Operations Office	18103
Naval Oceanographic Office	18096
Naval Personnel Bureau	18104
Naval Research Office	18109
Federal Communications Commission	17750
Federal Council for Science and Technology	17752
Federal Home Loan Bank Board	17755
Federal Power Commission	17758
Federal Radiation Council	17761
Federal Reserve System Board of Governors	17762
General Accounting Office	17810
General Services Administration	17816
Federal Supply Service	17763
National Archives and Records Service	18060
Government Printing Office	
Public Documents Division	18149
Health, Education, and Welfare Department	
Education Office	17715
Food and Drug Administration	17790
Public Health Service	18152
Social and Rehabilitation Service	18205
Children's Bureau	17444
Rehabilitation Services Administration	18196
Social Security Administration	18206
Federal Credit Unions Bureau	17754

Health, Education, and Welfare Department—Continued	
Vocational Rehabilitation Administration, <i>see</i> , above, Social and Rehabilitation Services Administration.	
Housing and Urban Development Department.....	17835
Federal Housing Administration.....	17757
Interior Department.....	17845
Federal Water Pollution Control Administration.....	17765
Fish and Wildlife Service.....	17769
Geological Survey.....	17817
Land Management Bureau.....	17902
Mines Bureau.....	17911
National Park Service.....	18090
Outdoor Recreation Bureau.....	18116
Reclamation Bureau.....	18195
Territories Office.....	18240
Interstate Commerce Commission.....	17857
Joint Publications Research Service.....	17859-1
Justice Department.....	17883
Immigration and Naturalization Service.....	17844
Prisons Bureau.....	18148
Labor Department.....	17884
Labor Standards Bureau.....	17887
Labor Statistics Bureau.....	17890
Manpower Administration	
Employment Security Bureau.....	17727
Wage and Hour and Public Contracts Divisions.....	18251
Women's Bureau.....	18255
Library of Congress.....	17903
Copyright Office.....	17682
National Aeronautics and Space Administration.....	17919
National Labor Relations Board.....	18088
Post Office Department.....	18135
President of United States.....	18140
Executive Office of the President	
Economic Opportunity Office.....	17709
National Council on Marine Resources and Engineering Development .....	18085
Special Representative for Trade Negotiations, Office of.....	18218
Renegotiation Board.....	18197
Small Business Administration.....	18201
Smithsonian Institution.....	18203
National Collection of Fine Arts.....	18084
National Museum.....	18089
State Department.....	18221
International Development Agency.....	17855
Tariff Commission.....	18236
Tennessee Valley Authority.....	18239

	Beginning Entry
Transportation Department	
Coast Guard .....	17468
Federal Aviation Administration.....	17740
Air Traffic Service.....	17365
Aviation Medicine Office.....	17410
Flight Standards Service.....	17789
Federal Highway Administration	
Motor Carrier Safety Bureau.....	17917
National Highway Safety Bureau.....	18086
Public Road Bureau.....	18192
National Transportation Safety Board.....	18092
Treasury Department.....	18241
Internal Revenue Service.....	17851
Narcotics Bureau.....	17918
Veterans Administration.....	18246

# Monthly Catalog

NO. 875 • DECEMBER 1967

AGRICULTURAL RESEARCH SERVICE, Agriculture Dept.  
Washington, DC 20250

ARS (series). †

A 77.15:(nos.)

- 17299 44-193. DHIA sire summary list, May 1967. Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, and Red Dane sires. Sept. 1967. cover title, 66 p. il. 4° [Text on p. 2 of cover.] • Item 25-B
- 17300 51-14. Degreening response of color-sorted Florida oranges [preliminary report, with list of literature cited: by Otto L. Jahn, Gilbert E. Yost, and James Soule], Oct. 1967. 14 p. 4° [Prepared in cooperation with Florida Agricultural Experiment Station.]  
L.C. card Agr 67-399

[Correspondence aid] CA (series).

- 17301 51-1. Sprout prevention in potatoes; by Howard W. Hruschka. Oct. 1967. 3 p. 4° † A 77.18: 51-1
- 17302 [Plant quarantine import requirements of Australia], Entry requirements for orchid plants. Nov. 1, 1967. 1 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes Change dated June 12, 1967.] †  
A 77.329: An 78/963/ch.-2
- 17303 Plant quarantine import requirements of Fiji. Oct. 26, 1967. 5 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes summary dated Dec. 14, 1962.] † A 77.329: F 47/967

AGRICULTURE DEPARTMENT  
Washington, DC 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

Agriculture handbooks. • Item 3

A 1.76:(nos.)

- 17304 344. Worldwide use of airphotos in agriculture [with list of references; by Henry W. Dill, jr.]. [Sept. 1967.] iv+23 p. il. 4° (Economic Research Service.) • Paper, 25c.  
L.C. card Agr 67-378
- 17305 347. Age of transition, rural youth in a changing society [with list of references; prepared by Helen W. Johnson]. [Oct. 1967.] cover title, 92 p. il. oblong 12° (Economic Research Service.) • Paper, 75c.  
L.C. card Agr 67-374
- 17306 348. Handbook of agricultural charts, 1967. [Oct. 1967.] cover title, 151 p. il. Economic Research, Statistical Reporting, Agricultural Research, Foreign Agricultural Services.) • Paper, 45c.  
L.C. card 64-62697

Agriculture information bulletins. • Item 4

A 1.75:(nos.)

- 17307 237. Controlling insects on flowers; [by Floyd F. Smith]. [Revised 1967.] [1967.] cover title, ii+81 p. il. ([Entomology Research Division, Agricultural Research Service.]) [Illustrations on covers are colored.] • Paper, 45c.  
L.C. card Agr 67-395
- 17308 329. Balance sheet of agriculture; [prepared by Philip T. Allen and others]. [Oct. 1967.] [1]+ii+36 p. il. 4° (Economic Research Service.) • Paper, 30c.  
L.C. card Agr 45-296

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

•Sent to Depository Libraries

Page 1

# GOVERNMENT PUBLICATIONS

## Farmers' bulletins. • Item 9

A 1.9:(nos.)

- 17309 1043. Strawberry varieties in United States; [by George M. Darrow and D. H. Scott]. [Revised Oct. 1967.] [1967.] 16 p. ll. ([Crops Research Division, Agricultural Research Service.]) \* Paper, 10c.  
L.C. card Agr 67-383
- 17310 1869. Foundations for farm buildings; [prepared by Agricultural Engineering Research Division, Agricultural Research Service]. [Slightly revised Oct. 1967.] [1967.] 32 p. ll. \* Paper, 15c.  
L.C. card Agr 67-380
- 17311 2162. Your farm rent determination problem; [by Marshall Harris and Virgil Hurlburt]. [June 1961, slightly revised Oct. 1967.] [1967.] 24 p. ([Natural Resource Economic Division, Economic Research Service.]) \* Paper, 15c.
- 17312 2192. Hog-lot equipment; [by J. H. Zeller, T. E. Bond, and G. M. Petersen]. [July, 1963, slightly revised Oct. 1967.] [1967.] 20 p. ll. ([Animal Husbandry Research Division and Agricultural Engineering Research Division, Agricultural Research Service.]) [Prepared in cooperation with Nebraska Agricultural Experiment Station. Supersedes Farmers' bulletin 1490.] \* Paper, 15c.

## Home and garden bulletins. • Item 11

A 1.77:(nos.)

- 17313 40. Freezing combination main dishes. [July 1954, slightly revised Oct. 1967.] [1967.] 20 p. ll. narrow 8° ([Human Nutrition Research Division, Agricultural Research Service.]) \* Paper, 10c.
- 17314 59. Simplified clothing construction. [Mar. 1959, slightly revised Oct. 1967.] [1967.] 32 p. ll. 4° ([Agricultural Research Service.]) [Supersedes Farmers' bulletin 1954, Making a dress at home. Includes name of publication providing further information.] \* Paper 25c.  
L.C. Card Agr 67-326
- 17315 69. Home care of purchased frozen foods; [prepared by Human Nutrition Research Division, Agricultural Research Service]. [Aug. 1960, slightly revised Sept. 1967.] [1967.] [2]+6 p. ll. [Includes list of Agriculture Department publications that contain information on home frozen foods.] \* Paper, 5c.  
L.C. card Agr 67-388
- 17316 73. Wood decay in houses, how to prevent and control it; [prepared by Forest Service]. [Oct. 1960, slightly revised Sept. 1967.] [1967.] [2]+17 p. ll. [Supersedes Farmers' bulletin 1993, Decay and termite damages in houses.] \* Paper, 15c.
- 17317 97. Sanitation in home laundering; [prepared by Consumer and Food Economics Research Division, Agricultural Research Service]. [Apr. 1964, revised Sept. 1967.] [1967.] 8 p. ll. \* Paper, 5c.
- 17318 98. Guide to budgeting for young couple; [prepared by Consumer and Food Economics Research Division, Agricultural Research Service]. [Aug. 1964, slightly revised Oct. 1967.] [1967.] [16] p. ll. [Includes list of publications prepared by Agriculture Department that may be helpful in getting most for your money.] \* Paper, 10c.
- 17319 124. Lamb in family meals, guide for consumers; [prepared by Human Nutrition Division, Agricultural Research Service]. [Oct. 1967.] 11+22 p. ll. \* Paper, 15c.  
L.C. card Agr 67-372

## Leaflets. • Item 12

A 1.35:(nos.)

- 17320 406. Apple bitter rot; [prepared by Crops Research Division, Agricultural Research Service]. [Revised Sept. 1967.] [1967.] 5 p. ll. narrow 8° \* Paper, 5c.
- 17321 432. Where and how to get a farm, some questions and answers [with list of publications for further information; prepared by Farm Production Economics Division, Economic Research Service]. [Revised Oct. 1967.] [1967.] 8 p. ll. [Supersedes Leaflet 299, Some questions and answers on where and how to get a farm.] †

## Marketing research report.

- 17322 805. Consumer response to various levels of advertising for fluid milk; [by Wedell E. Clement and Peter L. Henderson]. [Oct. 1967.] 1v+12 p. ll. 4° (Economic Research Service.) \* Paper, 15c. • Item 13-B  
L.C. card Agr 67-393

A 1.82: 805

## Miscellaneous publications. • Item 13-A

A 1.38:(nos.)

- 17323 798. Scientific careers in Agricultural Research Service; [prepared by Personnel Division, Agricultural Research Service]. [Revised Sept. 1967.] [1967.] cover title, 36 p. ll. oblong 12° [Text on p. 2 and 3 of cover.] \* Paper, 35c.  
L.C. card Agr 67-381
- 17324 1063. Fact book of U.S. agriculture. [Revised Sept. 1967.] [1967.] cover title, 11+76 p. ll. ([Special Reports Division], Office of Information.) [Text on p. 2 of cover.] \* Paper, 30c.  
L.C. card 63-61826

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# DECEMBER 1967

- 17325 **Outdoors USA** [yearbook of agriculture 1967; Jack Hayes, editor]. [1967.] xxxix+408 p. il. [Illustrated lining papers attached to front and back covers. Yearbook is made up of signed articles. Also issued as H. doc. 29, 90th Cong., 1st sess.] \* Cloth, \$2.75. ● Item 17  
L.C. card Agr 67-359 A 1.10:967

PA [Program aid] (series). ● Item 14-A A 1.68:(nos.)

- 17326 814. Zoning, aid to community resource development [with list of selected references; by E. C. Weltzell]. [Oct. 1967.] 15 p. il. 4° (Federal Extension Service.) \* Paper, 15c.  
L.C. card Agr 67-396
- 17327 818. Soil Conservation Service [activities]. Sept. 1967. [8] p. il. narrow 8° †
- 17328 819. This is Cooperative Extension. [Aug. 1967.] [8] p. il. narrow 8° (Federal Extension Service.) †
- 17329 821. Land exchange in national forest system. [Sept. 1967.] [12] p. il. narrow 8° (Forest Service.) †
- 17330 823. Retailers, encourage your low-income customers to take part in food stamp program. [Oct. 1967.] [4] p. il. narrow 8° (Consumer and Marketing Service.) †

Picture stories. † A 1.100:(nos.)

- 17331 201. In race between hunger and hope, hunger is ahead. Oct. 1967. 6 p. il. 4° (International Agricultural Development Service.)
- 17332 203. To grow the 2d blade of grass. Oct. 1967. [8] p. il. 4° (International Agricultural Development Service.)

Statistical bulletin.

- 17333 410. Feed statistics through 1966, feed grains, processed feeds, feeds, hay and other forages; prepared by Jack S. Ross, Dorothy L. Bailey, and Pauline Koslasky. Sept. 1967. cover title, 112 p. 4° ([Feed Section, Commodity Analysis Branch, Economic and Statistical Analysis Division] Economic Research Service.) [Preface on p. 2 of cover.] \* Paper, 55c. ● Item 15  
A 1.34:410

Technical bulletins. ● Item 16 A 1.36:(nos.)

- 17334 1373. *Crotalaria* seed morphology, anatomy, and identification [with list of references]; by Robert H. Miller. Sept. 1967. il+73 p. il. (Agricultural Research Service.) [Text on p. 2 of cover.] \* Paper, 35c.  
L.C. card Agr 67-373
- 17335 1376. Development of method for testing and rating refrigerated truck bodies [with list of literature cited; by C. W. Phillips and R. W. Penney]. [Sept. 1967.] iv+36 p. il. (Agriculture Research Service.) [Prepared in cooperation with National Bureau of Standards, Commerce Dept.] \* Paper, 15c.  
L.C. card Agr 67-385
- 17336 1381. Polyperiod analysis of growth and capital accumulation of farms in rolling plains of Oklahoma and Texas [with list of selected references; by J. Rod Martin and James S. Plaxico]. [Sept. 1967.] cover title, x+104 p. il. (Economic Research Service.) [Prepared in cooperation with Agricultural Experiment Stations of Oklahoma and Texas.] †  
L.C. card Agr 67-377

- 17337 Telephone directory, Department of Agriculture; issued by Office of Plant and Operations. Oct. 1967. cover title, 3-139 p. [Text on p. 2-4 of cover.] \* Paper, 35c. A 1.89:967

## AIR FORCE DEPARTMENT, Defense Dept. Washington, DC 20330

Air Force pamphlet AFP (series).

- 17338 71-8. See Defense Department, Defense Supply Agency manual DSAM 4145.7.

Air Weather Service: Technical report.

- 17339 200. Notes on analysis and severe-storm forecasting procedures of Military Weather Warning Center [with bibliography and references]; by Robert C. Miller. July 1967. cover title, viii+[149] p. il. 4° [List of parameter symbols used in figures of this report on inside back cover. Issued in loose-leaf form.] † D 301.40:200

- 17340 Long-range forecasting and planning, symposium held at U.S. Air Force Academy, Colo., Aug. 16-17, 1966 [with bibliographies]. [1967.] x+200+[2] p. il. 1 pl. 4° (Office of Aerospace Research.) \* Paper, \$3.00.  
● Item 422-B  
L.C. card 67-62963 D 301.69/5: F 76

◆For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

Lunar farside chart. [Prepared for National Aeronautics and Space Administration.]

- 17341 LFC-1. Scale 1:5,000,000 at 30° N-S. 2d edition Oct. 1967. Aeronautical Chart and Information Center [1967]. 27 x 42 in. [Mercator projection. Polar regions on reverse.] \* Paper, 50c. D 301.49/4: LFC-1/967-2

OAR (series). (Office of Aerospace Research.)

- 17342 67-8. OAR index of research results, 1965-66 [with bibliography]. [1967.] xi+557+[2] p. 4° \* Paper, \$3.00. \* Item 422-B D 301.69/3: 67-8  
L.C. card 64-61584

Personnel Research Laboratory: Technical report PRL-TR (series). (Aerospace Medical Division, Air Force Systems Command, Lackland Air Force Base, Tex.) ‡ D 301.45/27: (nos.)

- 17343 66-18. Predicting 1st year achievement of Air Force Academy cadets, class of 1967 [with list of references]; by Robert E. Miller, Nov. 1966. vi+20+[2] p. 4° ([Project 7717, task 771706.])  
17344 67-2. Attempt to predict automobile accidents among Air Force personnel [with one reference]; by Cecil J. Mullins, July 1967. v+5+[2] p. 4° ([Project 7719, task 771906.])  
17345 67-4. Prediction of success in instructional programmer school [with one reference]; by Cecil J. Mullins, Aug. 1967. v+7+[2] p. 4° ([Project 7719, task 771906.])

School of Aerospace Medicine: Technical report SAM TR (series). (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.) D 301.26/13-6: (nos.)

- 17346 66-240. Agar concentration in counting Clostridium colonies [with list of literature cited; by] Charles Eller et al. Jan. 1967. cover title, 55-57+[2] p. ll. 4° ([Task 775702.]) [Presented at annual meeting of American Society for Microbiology, Los Angeles, Calif., May 1-5, 1966. Reprinted from Applied microbiology, Jan. 1967, v. 15, no. 1. Copyright 1967, American Society for Microbiology.] ‡  
17347 66-260. Gamma radiation LD 50(30) for rabbit [with list of references; by] William H. Pryor, William G. Glenn, Kenneth A. Hardy, Mar. 1967. cover title, 483-487+[2] p. 4° ([Project 7753, task 775301.]) [Reprinted from Radiation research, v. 30, no. 3, Mar. 1967. Copyright 1967 by Academic Press Inc.] ‡  
17348 66-268. Aortic insufficiency in flying personnel [with list of references; by] Lawrence J. Enders, June 1967. cover title, 623-628+[2] p. ll. 4° [Reprinted from Aerospace medicine, v. 38, no. 6, June 1967.] ‡  
17349 67-41. F-106B aircraft flashblindness experiment [with list of references; by] Albert V. Alder, James E. Hamilton, July 1967. ([Projects 6301, 5710; tasks 630103, 571003.003.]) cover title, iii+7+[2] p. ll. 4° \* Paper, \$3.00.  
17350 67-49. Patients' view of patient care during aeromedical evacuation; [by] George K. Cantrell, I. O. McKinney, Bryce O. Hartman, July 1967. cover title, iii+24+[2] p. 4° ([Task 799602.]) ‡  
17351 67-51. Factors affecting efficiency of chemically defined diet [with list of references; by] Yuoh Ku, July 1967. cover title, iii+21+[2] p. ll. 4° [Prepared by Monsanto Research Corporation, Boston Laboratory, Everett, Mass., under contract AF 41(609)-2980, and task 775803.] ‡  
17352 67-52. Feasibility study of use of stannous fluoride mouthwash in school preventive dentistry program [with list of references; by] George Swerdloff, Ira L. Shannon, June 1967. cover title, iii+10+[2] p. 4° ([Project 7753; task 775303.]) ‡  
17353 67-53. Development of encasement for emergency dental kit for use on space missions; [by] W. E. Rothe, Jack L. Hartley, June 1967. cover title, iii+10+[2] p. ll. 4° ([Contract AF41(609) 2724; task 775303.]) \* Paper, \$3.00.  
17354 67-54. Improved electrochemical carbon dioxide sensor [with list of references; by] Robert J. Reyes, Charles F. Martin, J. Ryan Neville, July 1967. cover title, iii+10+[2] p. ll. 4° ([Task 775802.]) [Corrections, 1 p. oblong 24°, issued also.] ‡  
17355 67-55. MOL, predicting 4-hour levels of psychomotor performance from initial half hour; [by] Bryce O. Hartman, June 1967. cover title, iii+9+[2] p. 4° ([Task 793003.]) \* Paper, \$3.00.  
17356 67-56. Hearing of flying personnel, 1962-65 [with list of references; by] Harrell C. Sutherland, jr. James E. Endicott, Frederick G. Collins, June 1967. cover title, iii+15+[2] p. ll. 4° ([Task 775508.]) ‡  
17357 67-57. Thermography of human dentition [with chronologic bibliography; by] Jack L. Hartley, Daniel F. Stanhill, Bernard D. Plakun, July 1967. cover title, v+38+[2] p. ll. 4° [Prepared by Barnes Engineering Company, Stamford, Conn., under contract AF 41(609)-3025 and task 799601.] ‡  
17358 67-58. Laboratory control of anticoagulation therapy, quality control in coagulation procedures in 1-stage prothrombin time [with list of references; by] Jarrell D. Bairlington, Emil W. Peterson, June 1967. cover title, iii+9+[2] p. ll. 4° ([Task 775301.]) ‡

\*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17359 67-60. Dizziness and vertigo in aviators [with list of references; by] William L. Mitchell, Morgan E. Wing, Frederick G. Collins. July 1967. cover title, iii+11+[2] p. il. 4° ([Task 775508.]) ‡
- 17360 67-63. Temperature-sensing telemetry system for unrestrained rhesus monkeys (*Macaca mulatta*) [with list of references; by] Henry Buchanan et al. July 1967. cover title, iii+11+[2] p. il. 4° ([Project 7930.]) Φ Paper, \$3.00.
- 17361 67-64. Effects of monomethylhydrazine on coagulation mechanism [with list of references; by] Jarrell D. Bairrington. July 1967. cover title, iii+4+[2] p. 4° ([Project 7753, task 775301.]) ‡
- 17362 67-66. Photoactivation of smooth muscle with ruby laser [with list of references; by] Donald E. Rounds, Robert S. Olson. Aug. 1967. cover title, iii+6+[2] p. il. 4° [Prepared in Laser Biology Laboratory, Pasadena Institute for Medical Research, Pasadena, Calif., under contract F41609-67-C-0022 and task 775301.] ‡
- 17363 67-95. Acclimatization versus tolerance to stress, annotated bibliography: v. 1, [Acclimatization and chronic hypoxia; by] J. T. Celentano, H. B. Kelly, jr., W. I. Lilley. Sept. 1967. cover title, vi+553+[2] p. 4° [Compiled by Life Sciences Department, Space and Information Systems Division, North American Aviation, Inc., Downey, Calif. under task 793002 and contract AF 41(609)-2335.] ‡
- 17364 United States Air Force Systems Command. [1967.] cover title, [32] p. il. oblong 12° [Text on p. 2 and 3 of cover.] ‡ ● Item 422-B  
D 301.45: A1 7/2

## AIR TRAFFIC SERVICE, Transportation Dept. Washington, DC 20553

- 17365 International flight information manual, v. 15, Apr. 1967, amdt. 2; Oct. 1967. [1967.] [67] p. 4° (Flight Information Division, National Flight Data Center (AT-430).) [Issued in looseleaf form.] \* Paper, \$1.25 (including basic manual and supplementary service for 1 year); 25c. additional for foreign mailing. ● Item 431-C-18 TD 4.309: 15/amdt.2

## AMERICAN BATTLE MONUMENTS COMMISSION Washington, DC 20421

- 17366 Manila American Cemetery and Memorial. 1967. 44 p. il. ‡ ● Item 1050  
Y 3.Am 3: M 31/967

## ARMED FORCES INFORMATION AND EDUCATION, Defense Dept. Washington, DC 20301

DOD [pamphlets]. ‡ ● Item 312-A D 2.14: AO-(nos.)

- 17367 AO-36. Capsule facts for Armed Forces: Austria. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 17368 AO-37. Same: Jamaica. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 17369 AO-44. Same: New Zealand. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]
- 17370 AO-45. Same: Nepal. Aug. 1967. 4 p. il. 4° [Adapted from Department of State Background notes series.]

## ARMS CONTROL AND DISARMAMENT AGENCY Washington, DC 20451

- 17371 Defense systems resources in civil sector, evolving approach, uncertain market [with selected bibliography]; prepared by John S. Gilmore, John J. Ryan, and William S. Gould, University of Denver Research Institute. July 1967. x+201 p.+[6] leaves, il. 4° (Contract ACDA/E-103.) \* Paper, \$1.00. ● Item 125-A-3  
L.C. card 67-62936 AC 1.2: D 36/2

## ARMY DEPARTMENT, Defense Dept. Washington, DC 20310

AMC pamphlet. (Army Materiel Command.)

- 17372 335-1. Reports, register of approved recurring reports. Sept. 1967. cover title, v+188 p. 4° [Quarterly. Issued with perforations. Supersedes AMCP 335-1, June 30, 1967.] ‡ ● Item 322-A D 101.22/3: 335-1/11

ΦFor Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 5

# GOVERNMENT PUBLICATIONS

## Army regulations AR (series).

17373 708-14. See Defense Department, Cataloging manual M 1-4.

## Cold Regions Research & Engineering Laboratory, Hanover, H. N.: Research reports. (Army Materiel Command.) D 103.33/3:(nos.)

17374 139. Measurement of natural particulate fallout onto high polar ice sheets: pt. 2, Antarctic and Greenland cores [with list of literature cited]; by Wayne L. Hamilton. Mar. 1967. iv+39+[2] p. il. 4° ([DA task 1V014501B52A02.])

17375 231. Study of hexagonal and cubic ice at low temperatures [with list of literature cited]; by Motoi Kumai. July 1967. iv+17+[2] p. il. 4° (DA task 1V014501B52A02.) ‡ Paper, \$3.00.

17376 234. Analytical and experimental study of melting problem with natural convection [with list of literature cited]; by Yin-Chao Yen. July 1967. v+8+[2] p. il. 4° (DA task 1V014501B52A02.) ‡

## —Technical reports. (Army Materiel Command.) D 103.33:(nos.)

17377 194. Heat transfer and performance analysis of thermal probe for glaciers [with list of literature cited]; by Haldor W. C. Aamot. Sept. 1967. iv+12+[2] p. il. 4° (DA task 1L013001A91A04.) ‡

17378 199. Geology of USA CRREL permafrost tunnel, Fairbanks, Alaska [with list of literature cited]; by Paul V. Sellmann. July 1967. iv+22+[2] p. il. 4° (DA task 1V025001A13001.) ‡ Paper, \$3.00.

17379 206. Preparation of low density sulfur foam; by John M. Dale and Allen C. Ludwig. Sept. 1967. iv+14+[2] p. il. 4° (Southwest Research Institute: contract DA-27-021-AMC34(X), DA task 1V025001A13001.) ‡

## Pamphlets. ● Item 327

D 101.22:(nos.)

17380 55-5. Transportation and travel: Worldwide cargo transportation costs guide. Oct. 1967. cover title, ii+[155] p. 4° [Issued in looseleaf form. Supersedes DA Pam 55-5, Feb. 26, 1965, including Changes 1 through 5, May 17, 1965-July 28, 1966.] ‡

17381 360-231. Troop topics: Enlisted evaluation system. Sept. 1, 1967. cover title, [16] p. il. 4° [Text on p. 2 and 3 of cover.] ‡

17382 600-12. Digest of military personnel policies. Sept. 1967. cover title, xiii+[138] p. 4° [Issued with perforations.] ‡

17383 608-3. Educational scholarships, loans, and financial aids [for dependents of Army personnel, with list of publications]. Sept. 1967. cover title, v+58 p. 4° ‡ L.C. card 67-62940

17384 608-7. Helpful hints for personnel ordered to Puerto Rico, U.S. Army Forces, Southern Command. Aug. 1967. cover title, 23 p. small 4° [Supersedes DA Pam 608-7, Aug. 15, 1963.] ‡

## ROTC manual.

17385 145-4-1. Junior ROTC manual, v. 1 [with list of references]. Sept. 1967. cover title, 345 p. il. [Supersedes ROTCM 145-4-1, June 7, 1962, and ROTCM 145-4-3, Oct. 18, 1955, including Errata sheet, Dec. 20, 1955.] ‡ ● Item 327-D L.C. card 57-61987

D 101.48:145-4-1

## Technical manual TM (series).

17386 38-236. See Defense Department, Defense Supply Agency manual DSAM 4145.7.

17387 55-601. Troop movement guide [with list of references]. Aug. 1967. cover title, 207 p. il. 4° [Issued with perforations. Supersedes TM 55-601, Mar. 9, 1965 and rescinds DA Form 2939-R, Mar. 1, 1965.] ‡ ● Item 329

D.101.11:55-601/2

## USAAVLABS technical reports. (Army Aviation Materiel Laboratories, Fort Eustis, Va.) ‡ D 117.8/2:(nos.)

17388 67-17. Aircraft passenger-seat-system response to impulsive loads [with bibliography]; by James W. Turnbow [and others]. Aug. 1967. [1]+xxi+[291+[2] p. il. 4° (Task 1A024701A12101, contract DA 44-177-AMC-360(T), AvSer 66-20.) [Prepared by Arizona State University, Tempe, Ariz., and Aviation Safety Engineering and Research, Phoenix, Ariz., a division of Flight Safety Foundation, Inc.]

17389 67-36. Evaluation of laminated elastomeric bearings in UH-1 helicopter tail rotor [with list of references]; by C. H. Fagan. July 1967. [1]+x+[72+[2] p. il. 4° (Task 1M121401D14414, contract DA 44-177-AMC-313(T); BHC report 572-099-004.) [Prepared by Bell Helicopter Company, a division of Bell Aerospace Corporation, Ft. Worth, Tex.]

## ATOMIC ENERGY COMMISSION Washington, DC 20545

## AEC research and development reports. Y 3.At 722/(letters-nos.)

17390 AEC-tr-6893. Thermal distillation of sea water, fundamentals of theory of marine evaporators [with bibliography]; by V. F. Kovalenko. Sept. 1967. cover title, [2]+a-c+230 p. il. 4° (Translation series.) [Translated from publication of Transport Publishing House, Moscow, 1966.] ‡ Paper, \$3.00.

\*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17391 GECR-5155. Feasibility study of boiling water reactor nuclear steam supply systems with capacities up to 10,000 MWT, final report; by R. W. Lockhart. Feb. 1967. cover title, ix+[124] p. il. 4° (Advanced Products Operation, General Electric Company, Sunnyvale, Calif.) [Prepared for Union Carbide Corporation, Nuclear Division, under subcontract 2606, to USAEC contract W-7405-eng. 26.]  $\Phi$  Paper, \$3.00.
- 17392 ID-12060. Experimental observations in thermoluminescent dosimetry at National Reactor Testing Station [with list of references, by] John P. Cushman, physicist, Dosimetry Branch, Health and Safety Laboratory. Mar. 1967. [3]+9+[1] p. il. 4° (Idaho Operations Office, Idaho Falls, Idaho.) [Presented at 11th annual meeting of Pacific Northwest section of AIHA under joint sponsorship with Eastern Idaho Safety Engineers and Eastern Idaho chapter of Health Physics Society in Idaho Falls, Idaho, Aug. 26-27, 1966.]  $\Phi$  Paper, \$3.00.
- 17393 IS-1611 (add.). Bibliography of 1966 mass spectroscopy literature compiled by computer method; by J. Capellen, H. J. Svec, C. R. Sage. July 1967. [2]+xiv p. 4° (Ames Laboratory, Iowa State University, Ames, Iowa; [contract W-7405 eng-82].)  $\dagger$
- 17394 PNE-505F. Plowshare, civil, industrial, and scientific uses for nuclear explosives, Project Pre-Schooner, Nevada Test Site, Feb. 1964, final report: Geologic and engineering properties, investigations [with list of references; by] R. J. Lutton, F. E. Cirucky, R. W. Hunt, Apr. 1967, cover title, 212+[2] p. il. 4° ([Army Engineer] Nuclear Cratering Group.) [Report of studies conducted by Army Engineer Waterways Experiment Station, Nuclear Cratering Group, and private contractors.]  $\Phi$  Paper, \$3.00.
- 17395 PNE-510F. Same: Project Pre-Schooner II, Bruneau Plateau, Idaho, Sept. 30, 1965: Design, construction, and postshot evaluation of concrete stem for access hole [with list of references; by] Kenneth L. Saucier, P. S. Stewart. Aug. 1967. cover title, 33 p. il. 4° (Army Engineer Nuclear Cratering Group, Livermore, Calif.) [Report of study conducted by Army Engineer Waterways Experiment Station.]  $\Phi$  Paper, \$3.00.
- 17396 PNE-1106. Same: Project Pre-Gondola I, Fort Peck Reservoir, Mont.: Structures instrumentation [with list of references; by] Robert F. Ballard, jr. Aug. 1967. cover title, [2]+1+54+[24] p. il. 1 pl. 4° (Army Engineer Nuclear Cratering Group, Livermore, Calif.) [Report of study conducted by Army Engineering Waterways Experiment Station.]  $\Phi$  Paper, \$3.00.
- 17397 PNE-1110. Same: Project Pre-Gondola I, Fort Peck Reservoir, Mont., [final report]: Lidar observations of Pre-Gondola I clouds [with list of references; by] John W. Oblanas, Ronald T. H. Collis, Stanford Research Institute. July 1967, cover title, [1]+85 p. il. 4° (Army Engineer Nuclear Cratering Group, Livermore, Calif.: [contract AT(04-3)-115, project agreement 66, SRI project 6268.])  $\Phi$  Paper, \$3.00.
- 17398 PNE-5009. Same: [Engineering properties of nuclear craters, report 4]. Formation and initial stability of slopes on cohesionless materials [with list of literature cited; by] B. N. MacIver. Aug. 1967. cover title, xv+59+[52] p. il. 4° (Army Engineer Nuclear Cratering Group, Livermore, Calif.) [Report of study conducted by Army Engineer Waterways Experiment Station.]  $\dagger$
- 17399 SAN-679-3. Design study, electrical component technology for 0.25 to 10.0 megawatt space power systems, quarterly technical progress report 3 [with list of references]; edited by A. E. King. May 31, 1967. cover title, vi+93 p. il. 4° (Aerospace Electrical Division, Westinghouse Electric Corporation, Lima, Ohio; [contract AT(04-3)-679].)  $\Phi$  Paper, \$3.00.
- 17400 TID-23740. Intercomparison of reliability of body 137Cs measurements on human beings [with lists of references]; by Constantine J. Maletskos [and others]. June 6, 1967. vii+102 p. il. 4° (Division of Biology and Medicine.)  $\Phi$  Paper, \$3.00.
- 17401 Education and change in scientific age, remarks of Glenn T. Seaborg, chairman, Atomic Energy Commission, at dedication of John G. Best Hall of Science, Tri-State College, Angola, Ind., Oct. 22, 1967. 10 p. 4° (S-39-67.)  $\dagger$  Y 3.At 7: 34Se 1/151
- 17402 Engineers and their education in changing society, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, at National Electronics Conference, Chicago, Ill., Oct. 23, 1967. 1967. 9 p. 4° (S-40-67.)  $\dagger$  Y 3.At 7: 34Se 1/152
- 17403 1967 financial report. [1967.] vi+50 p. il. 4° (Office of Controller.) \* Paper, 50c.  $\bullet$  Item 1051-M L.C. card 58-60169 Y 3.At 7: 39/967

# GOVERNMENT PUBLICATIONS

- 17404 Future outlook for applications of nuclear science, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, at symposium in celebration of Maria Sklodowska-Curie Centenary, Warsaw, Poland, Oct. 19, 1967. [1967.] 23 p. 4° (S-38-67.) † Y 3At 7: 34Se 1/150
- 17405 How to get license to use radioisotopes. July 1967. v+35 p. 4° (Division of Materials Licensing.) [Includes list of publications on radioisotopes.] \* Paper, 30c. • Item 1051-F Y 3At 7: 6-3R 11/5
- 17406 Nuclear industry [report], 1967. [1967.] cover title, ix+184 p. il. 4° (Division of Industrial Participation.) [Prepared for delivery to Atomic Industrial Forum's annual conference, Chicago, Ill., Nov. 6, 1967.] \* Paper, \$1.00. • Item 1051-O Y 3At 7: 56/967  
L.C. card 65-60723
- 17407 Remarks by Wilfrid E. Johnson, commissioner, Atomic Energy Commission, at dedication of Radiation Center, Oregon State University, Corvallis, Oreg., Oct. 26, 1967. 1967. 5 p. 4° (S-41-67.) † Y 3At 7: 34J 639/6  
Understanding the atom series. (Division of Technical Information.)
- 17408 Chemistry of noble gases; [with list of suggested references; by Cedric L. Chernick]. [Sept. 1967.] cover title, [2]+48 p. il. [Text on p. 2-3 of cover.] † Atomic Energy Commission, P.O. Box 62, Oak Ridge, TN 37830. Y 3At 7: 54N 66
- 17409 Index to Understanding the atom series. [Sept. 1967.] cover title, [3]+10 p. † L.C. card 67-62962 Y 3At 7: 54/ind./967

## AVIATION MEDICINE OFFICE, Transportation Dept. Washington, DC 20553

Aviation medical report AM (series). TD 4.210: (nos.)

- 17410 66-11. Problems in aerial application: 1.-V. [with lists of references; by L. B. Hinshaw [and others]. June 1966. [4]+47+[2] p. il. 4° [April 1966 appears on cover.] • Paper, \$3.00.
- 17411 67-8. Diagnostic tests of color defective vision, annotated bibliography, 1956-66; [by] Mark F. Lewis, Faye K. Ashby, May 1967. [5]+10+[1] p. 4° • Paper, \$3.00.
- 17412 67-9. Performance characteristics of constant-flow phase dilution oxygen mask designs for general aviation [with list of references; by] Ernest B. McFadden, Hilley F. Harrison, James M. Simpson. May 1967. [4]+12+[2] p. il. 4° • Paper, \$3.00.
- 17413 67-13. Functional comparison of basic restraint systems; [by] Joseph W. Young. June 1967. [4]+16+[1] p. il. 4° • Paper, \$3.00.
- 17414 67-14. Evaluation of potential decompression hazards in small pressurized aircraft [with list of references; by] John J. Swearingen. June 1967. [4]+10+[1] p. il. 4° • Paper, \$3.00.

## BUSINESS AND DEFENSE SERVICES ADMINISTRATION, Commerce Dept., Washington, DC 20230

- 17415 Electric current abroad; [compiled by Power and Electrical Equipment Division, Office of Scientific and Technical Equipment]. 1967 edition. [July 1967.] [2]+81 p. \* Paper, 30c. • Item 215 C 41.2: E1 2/12/967  
L.C. card 59-60738
- 17416 Major programs providing Federal funds for employment and training. Revised Oct. 1967. [1967.] 16 p. il. oblong 24° \* Paper, 15c. • Item 215 C 41.2: Em 7/967  
L.C. card 67-62967
- 17417 Regional construction requirements for water and wastewater facilities 1955-80 [with bibliography; prepared by K. L. Kollar and August F. Volonte]. Oct. 1967. 14+[21] p. il. 4° \* Paper, 25c. • Item 215 C 41.2: W29/13  
L.C. card 67-62921

## CENSUS BUREAU, Commerce Dept. Suitland, MD 20233

Annual survey of manufactures, 1964, M64(AS) (series). (Industry Division.)

- 17418 6. Book value of fixed assets and rental payments for building and equipment. [Oct. 1967.] cover title, [1]+25 p. 4° [Preprint of chapter in Annual survey of manufactures, 1964 and 1965 volume. Series notation on cover reads M65(AS)-6.] † Paper, 10c. • Item 134-A C 3.24/9: M64(AS)-6

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

# DECEMBER 1967

Annual survey of manufactures, 1965, M65(AS) (series). (Industry Division.) ● Item 134-A C 3.24/9: M65(AS)-(nos.)

- 17419 4. Fuels and electric energy used, by major industry groups, and by divisions and States. [Oct. 1967.] cover title, [1]+15 p. 4° [Preprint of chapter in Annual survey of manufactures, 1964 and 1965 volume.] † Paper, 25c.
- 17420 7.6. Statistics for States, standard metropolitan statistical areas, and large industrial counties: pt. 6. East South Central division. [Oct. 1967.] cover title, 11+26 p. 11. 4° [Preprint of chapter in Annual survey of manufactures, 1964 and 1965 volume.] † Paper, 25c.

Area measurement reports, GE-20 (series). [Prepared by Geography Division.] ● Item 146-B C 3.208/2: (nos.)

- 17421 27. Areas of Missouri, 1960. Sept. 1967. 20 p. 4° \* Paper, 20c.
- 17422 35. Areas of North Carolina, 1960. Sept. 1967. 18+[1] p. 4° \* Paper, 20c.
- 17423 37. Areas of Ohio, 1960. Sept. 1967. 23 p. 4° \* Paper, 20c.

County business patterns, 1965. ([Business Division.]) [Prepared in cooperation with Social Security Administration.]

L.C. card 49-45747 C 3.204/2: 965/pt. (nos.)

- 17424 pt. 1. U.S. summary. [1967.] xli+292 p. 11. 4° \* Cloth, \$3.00.
- 17425 pt. 2. Alabama-Illinois. [1967.] xlii+[954] p. 11. 4° \* Cloth, \$6.50.
- 17426 pt. 3. Indiana-Missouri. [1967.] xviii+[1056] p. 11. 4° [Includes list of corrections.] \* Cloth, \$7.00.
- 17427 pt. 4. Montana-Oregon. [1967.] xviii+[958] p. 11. 4° \* Cloth, \$6.50.
- 17428 pt. 5. Pennsylvania-Wyoming. [1967.] xviii+[1098] p. 11. 4° \* Cloth, \$7.00.

- 17429 Current industrial reports: Aluminum foil converted, 1966. Aug. 16, 1967. 2 p. 4° (Series MA-34P(66)-1.) † Paper, 25c. ● Item 142-A

C 3.158: MA-34P(66)-1

- 17430 — Construction machinery, 1966. Oct. 18, 1967. 15 p. 4° (Series M35D(66)-5.) † Paper, 25c. ● Item 142-A

C 3.158: M35D(66)-5

- 17431 — Manufacturers' shipments of office furniture, 1966 and 1965. Aug. 31, 1967. 6 p. 4° (Series MA-25H(66)-1.) † Paper, 25c. ● Item 142-A

C 3.158: MA-25H(66)-1

- 17432 — Motors and generators, [1966]; Oct. 10, 1967. 7 p. 4° (Series MA-36H(66)-1.) † Paper, 25c. ● Item 142-A

C 3.158: MA-36H(66)-1

- 17433 — Plumbing fixtures, summary for 1966. Oct. 3, 1967. 7 p. 4° (Series M34E(66)-4.) † Paper, 25c. ● Item 142-A

C 3.158: M 34E(66)-4

- 17434 — Pumps and compressors, 1966. Nov. 2, 1967. 4 p. 4° (Series MA-35P(66)-1.) † Paper, 25c. ● Item 142-A

C 3.158: MA-35P(66)-1

- 17435 — Sheets, pillowcases, and towels, 1966. Aug. 24, 1967. 2 p. 4° (Series MA-23X(66)-1.) † Paper, 25c. ● Item 142-A

C 3.158: MA-23X(66)-1

- 17436 — Survey of origin of exports of manufactured products, 1966. Oct. 19, 1967. cover title, 50 p. 4° (Series: MA-161(66)-1; [Industry Division.]) † Paper, 50c. ● Item 142-A

C 3.158: MA 161(66)-1

- 17437 — Yarn production, 1966 (preliminary). Aug. 30, 1967. 6 p. 4° (Series M22F(66)-13.) † Paper, 15c. ● Item 142-A

C 3.158: M 22F(66)-13/prelim.

Current population reports: Series P-23, Technical studies. \* Paper, \$5.00 (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60, and P-65 for one year), \$1.50 additional for foreign mailing; single copy, prices vary. ● Item 142-C

- 17438 23. Standard metropolitan statistical areas in United States as defined on May 1, 1967, with population in 1960 and 1950. Oct. 9, 1967. 20 p. 4° [Supersedes Current population reports, series P-23, no. 10.] \* Paper, 15c. ● Item 142-C

C 3.186: P-23/23

ΦFor Sale by Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 9



# GOVERNMENT PUBLICATIONS

- 17439 Current retail trade reports: 1966 retail trade, annual sales, year-end inventories, and accounts receivable of retail stores, by kind of business [by Gerda Mones, William Owens, and John Probasco]. Oct. 1967. 24 p. il. 4° (Series BR13-66.) \* Paper, \$6.00 a year (including Weekly retail sales report, Advance monthly sales report, Monthly retail trade report, and Annual retail trade report), \$4.00 additional for foreign mailing; single copy 20c. ● Item 147-B  
L.C. card 55-60385 C 3.138/3-2: 966
- 17440 U.S. foreign trade statistics, classifications and cross-classifications, 1967; [prepared in Foreign Trade Division]. [Sept. 1967.] cover title, [571] p. 4° [Text on p. 2 of cover. Issued in looseleaf form.] † Paper, \$6.00. ● Item 146 C 3.2: F 76/2/967
- 17441 U.S. waterborne foreign trade, summary report FT 985, calendar year 1966; prepared in Foreign Trade Division. Sept. 23, 1967. 11 p. 4° † Paper, 10c. ● Item 144 C 3.164: 985/966
- United States census of agriculture, 1964, farms, farm characteristics, livestock and products, crops, fruits, values: v. 1, [State and county statistics], pt. [Prepared in Agriculture Division. Supersedes statistics shown in preliminary reports, series AC64-P1.]
- 17442 48. California. [1967.] [4]+517+[25] p. il. 4° \* Paper, \$3.50. ● Item 152-A-33 C 3.31/4: 964/v.1/pt.48
- 17443 United States censuses of population and housing 1960; Quality control of field enumeration; [by Dean Weber]. [Sept. 1967.] vi+130 p. il. 4° ([Statistical Division, Field Division.]) \* Paper, 65c. ● Item 154  
L.C. card A 67-7227 C 3.223: Q 2/2

## CHILDREN'S BUREAU, Health, Education, and Welfare Dept. Washington, DC 20201

NOTE.—The Children's Bureau has been assigned to the Social and Rehabilitation Service which was established August 15, 1967, by the Secretary of the Department of Health, Education, and Welfare in a major realignment of Federal welfare rehabilitation and social welfare service programs. The Welfare Administration was disestablished on the same date.

- 17444 Suggested guidelines for evaluation of nutritional status of preschool children [with list of references]. 1966, revised 1967. [1967.] [1]+41 p. 4° † ● Item 452-C  
L.C. card HEW 67-163 FS 17.208: N 95

## CIVIL AERONAUTICS BOARD Washington, DC 20428

- 17445 Address by Robert T. Murphy, Vice Chairman, Civil Aeronautics Board, before fall regional quarterly meeting, Association of Local Transport Airlines, Boston, Mass., Oct. 13, 1967. 1967. 11 p. 4° † C 31.215: M 95/46
- 17446 Address by Robert T. Murphy, Vice Chairman, Civil Aeronautics Board, before National Airports Conference of American Association of Airport Executives, Norman, Okla., Oct. 11, 1967. 1967. 10 p. 4° †  
C 31.215: M 95/45
- 17447 Air cargo comes to smaller community, remarks by Whitney Gilliland, member, Civil Aeronautics Board [at] Modern Marketing Through Air Cargo Forum, Delta Air Lines, Inc., Atlanta, Ga., Oct. 12, 1967. [1967.] [1]+13 p. 4° † C 31.215: G 41/9
- 17448 Career opportunities for accountants, economists and transportation analysts, Civil Aeronautics Board. July 1967. cover title, 16 p. narrow 8° † ● Item 183 C 31.202: C 18
- 17449 Possible impact of Department of Transportation on air transport, panel participation by Whitney G. Gilliland, member, Civil Aeronautics Board, Oct. 17, 1967, 21st Air Transport Management Institute, American University, Oct. 16-27, 1967. [1967.] [1]+17 p. 4° † C 31.215: G 41/10

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



**CIVIL DEFENSE OFFICE (Army), Defense Dept.  
Washington, DC 20310**

FG (series).

- 17450 E-4.1. Basic emergency broadcast system plan. 1st revision, effective Aug. 4, 1967. [1967.] cover title, iv+91 p. il. 4° [Prepared in cooperation with Federal Communications Commission and Office of Emergency Planning. Supersedes FG-E-4.1, Jan. 1964 and Change 1, Dec. 1964.]  
† ● Item 320-B-3  
L.C. card 67-62952 D 119.8/3 : E-4.1

[Handbook] H (series).

- 17451 11-2. Meetings that move, to inform, to stimulate, to involve, to motivate, guide to successful meetings on civil defense: v. 2, Program materials on publicity, why civil defense? fallout shelters in new buildings. July 1967. cover title, 23 p. il. 4° [Includes list of available informational materials. Issued with perforations. Supersedes H-11-2, Apr. 1965, which may be used.] † Community Services Office, Office of Civil Defense, Department of Army, O.S.A., Washington, D.C. 20310 ● Item 857-D-10  
D 119.8/2 : 11-2/2

Miscellaneous publication MP (series).

- 17452 41. National and State civil defense policy resolutions of American Federation of Labor, Congress of Industrial Organizations. June 1967. cover title, 1+37 p. 4° (Labor Liaison Office.) [Issued with perforations. Supersedes publication of same title, dated Nov. 1966.] † ● Item 857-D-11  
D 119.11 : 41/2

**CIVIL SERVICE COMMISSION  
Washington, DC 20415**

- 17453 Amendment to following examination announcements: 299B, architect, grades GS-5 to 14; 301B, biochemist, grades GS-7 to 14; 330B, astronomer, grades GS-5 to 15; 372B, patent adviser, grades GS-7 to 15; 376B, mathematical statistician, grades GS-5 to 15. Oct. 16, 1967. 1 p. oblong 24° (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) † CS 1.26/3 : amdt./967-6
- 17454 Better office skills and service, student manual [with bibliography]. [1967.] cover title, ii leaves+ [220] p. il. 4° (Communications and Office Skills Training Center, Bureau of Training.) [Issued with perforations.] † ● Item 296-B CS 1.7/4 : Of 2
- 17455 Careers as medical auxiliaries, orthotist, prosthetist (grades 6-11), restoration technician (grades 5-11), applications continuously accepted by Interagency Board of Civil Service Examiners for Washington, D.C., 1900 E Street NW., Washington, D.C. 20415, announcement WA-7-47. Oct. 31, 1967. 5 p. 4° † CS 1.26/4 : 967/WA-7-47
- 17456 Careers for professional nurses in Federal service, Interagency Board of U.S. Civil Service Examiners for Washington, D.C., announcement WA-6-15. Nov. 1966 [revised Sept. 1967]. [1967.] [5]+8 p. 4° † ● Item 292 CS 1.26/4 : 966/WA-6-15/rev.
- 17457 Current Federal examination announcements, AN-2279, issue 180, Nov.-Dec. 1967. [1967.] [2] p. f° folded into narrow 8° size. † ● Item 292 CS 1.28 : 2279/180
- 17458 — AN 2279, supp. C to issue 179, Sept.-Oct. 1967, 1967. 1 p. oblong 24° [Supersedes supp. A and B.] † ● Item 292 CS 1.28 : 2279/179/supp.C
- 17459 Discontinuance notice to Federal careers in engineering and physical sciences, announcement WA-6-12, grades GS-5 and GS-7, agricultural statistician, announcement 305 B, grades GS-5 and GS-7. Oct. 16, 1967. 1 p. oblong 48] (Interagency Board of U.S. Civil Service Examiners for Washington, D.C.) † CS 1.26/4 : 966/WA-6-12 notice
- 17460 Examination for trainees to participate in vacation work-study programs leading to professional careers in engineering and physical sciences, grade 3, \$82.00 a week, grade 4, \$92.00 a week, apply to Interagency Board of Civil Service Examiners for Washington, D.C., 1900 E Street, NW., Washington, D.C. 20415, announcement WA-7-44. Oct. 31, 1967, 4 p. 4° [Program for students majoring in cartography, chemistry, engineering, geodesy, hydrology, mathematics, metallurgy, meteorology, naval architecture, oceanography, physics. Closing date, Jan. 25, 1968.] † CS 1.26/4 : 967/WA-7-44

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

- 17461 Interagency Board of U.S. Civil Service Examiners for Washington, D.C. announces examination for patent examiner, grades GS-9 through GS-13, announcement WA-7-42. Oct. 3, 1967. 6 p. 4° [No closing date.] †  
● Item 292 CS 1.26/4:967/WA-7-42
- 17462 Professional opportunities for educational program advisors (grades 9-12), apply to International Board of U.S. Civil Service Examiners for Washington, D.C., announcement WA-7-46. Nov. 7, 1967. 4 p. 4° [Applications continuously accepted.] † ● Item 292 CS 1.26/4:967/WA-7-46
- 17463 Veterinarian trainee, grade GS-7, summer employment for juniors in veterinary medicine, apply to Interagency Board of Civil Service Examiners for Washington, D.C., Hyattsville Branch Office, Federal Center Building, Hyattsville, Md., announcement WA-7-48. Nov. 7, 1967. [6] p. narrow 12° [Closing date Feb. 5, 1968.] † ● Item 292  
CS 1.26/4:967/WA-7-48

## CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION, Commerce Dept., Springfield, VA 22151

- 17464 SFCSI special foreign currency science information program, supplemental list of translations in process for fiscal year 1967, coordinated and administered by National Science Foundation. Sept. 1967. [2]+ii+21 p. 4° †  
C 51.12:967/supp.

## COAST AND GEODETIC SURVEY, Commerce Dept. Washington, DC 20230

- 17465 Distances between United States ports. 4th (1967) edition. 1967. 49 p. il. map, 4° [Assembles under one cover distance tables computed for United States coast pilots.] † Paper, 40c. ● Item 192  
L.C. card 61-64819 C 4.2:P 83/967  
Publication.
- 17466 31-3. Surface water temperature and density, Pacific Coast, North and South America and Pacific Ocean Islands. 2d edition 1967. [1967.] 85 p. il. large 8° \* Paper, 50c. ● Item 193 C 4.19/2:31-3/2
- 17467 United States coast pilot 5: Atlantic Coast, Gulf of Mexico, Puerto Rico, and Virgin Islands. 6th (Apr. 29, 1967) edition. 1967. 1967. v+301 p. il. 4° [Corrected through Notice to mariners NM-17/67.] † Cloth, \$2.50.  
● Item 204  
L.C. card 50-60257 C 4.6/4:5/6

## COAST GUARD, Transportation Dept. Washington, DC 20591

- 17468 Engineer's digest. (CG-133.) [Quarterly. Prior to no. 155, issued by Coast Guard, Treasury Department, and classified T 47.30:(nos.).] †  
L.C. card 41-51259 TD 5.17:(nos.)  
No. 255— Apr.-May-June 1967—

## COMMERCE DEPARTMENT Washington, DC 20230

NOTE.—Requests to the Commerce Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 17469 Address by Secretary of Commerce Alexander B. Trowbridge prepared for delivery to Young Presidents Organization, Washington, D.C., Oct. 19, 1967. [1967.] 12 p. 4° (Office of Secretary.) † C 1.18:T75/34
- 17470 Automobile and air pollution, program for progress: [pt. 1], Report of Panel on Electrically Powered Vehicles to Commerce Technical Advisory Board. Oct. 1967. iv+51 p. il. 4° \* Paper, 60c. ● Item 128  
L.C. card 67-62879 C 1.2: Au 8/pt.1

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17471 Economy: Prospects and policies, remarks by William H. Shaw, Assistant Secretary of Commerce for Economic Affairs, prepared for delivery at National Defense Executive Reserve Conference, Oct. 23, 1967, Washington, D.C. 1967. 8 p. 4° † C 1.18: Sh 2/15
- 17472 Future in materials, address by Assistant Secretary of Commerce for Science and Technology John F. Kincaid, prepared for delivery at banquet of 2d Materials Research Symposium, Washington, D.C., Oct. 17, 1967. [1967.] 16 p. 4° (Office of Secretary.) † C 1.18: K 57/2
- 17473 Our domestic economy, who is shooting John, text of address by Lawrence C. McQuade, Assistant Secretary of Commerce for Domestic and International Business, prepared for delivery before Chamber of Commerce, Augusta, Ga., Oct. 20, 1967. 1967. 17 p. 4° † C 1.18: M 24/20
- Overseas business reports OBR (series). [Issued irregularly.] \* Paper, \$13.00 a yr., \$5.00 additional for foreign mailing; single copy, 15c. (1-3 yr. subs.). ● Item 231-B C 1.50: (nos.)
- 17474 67-54. Foreign trade regulations of Iran: prepared by Near East-South Asia Division, Office of International Regional Economics. Aug. 1967. 7 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 65-82.]
- 17475 67-59. Establishing business in Italy [with bibliography]; prepared for publication in European Division, Office of International Regional Economics. Sept. 1967. 18 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes WT18, pt. 1, no. 60-33.]
- 17476 67-63. Establishing business in United Kingdom [with bibliography]; prepared by Paul A. Norloff. Oct. 1967. 11 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 64-46.]
- 17477 67-64. Market factors in India [with bibliography]; prepared by Mary L. Manly. Oct. 1967. 17 p. 4° (Bureau of International Commerce.) [Issued with perforations.]
- 17478 67-65. Foreign trade regulations of Central American Common Market; prepared by Maryann J. O'Hagan. Oct. 1967. 10 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 63-155, OBR 64-50, OBR 64-21, OBR 66-17, OBR 64-62.]
- 17479 67-66. Foreign trade regulations of Brazil; prepared by Don A. Walsman. Oct. 1967. 8 p. 4° (Bureau of International Commerce.) [Issued with perforations.]
- 17480 67-67. Foreign trade regulations of Arabian Gulf States; prepared for publication in Near East-South Asia Division, Office of International Regional Economics. Oct. 1967. 5 p. 4° (Bureau of International Commerce.) [Issued with perforations.]
- 17481 67-68. Foreign trade regulations of Finland; prepared by Harold McNitt. Oct. 1967. 8 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 64-132.]
- 17482 67-69. Foreign trade regulations of Chile; prepared by Carl Randall. Oct. 1967. 8 p. 4° (Bureau of International Commerce.) [Issued with perforations. Supersedes OBR 65-84.]
- 17483 Trade winds, address by Lawrence C. McQuade, Assistant Secretary of Commerce for Domestic and International Business, Department of Commerce, prepared for delivery before Patent Law Association of Chicago, Chicago, Ill., Nov. 1, 1967. [1967.] 26 p. 4° † C 1.18: M 24/21
- 17484 United States Department of Commerce promotes economic growth; [prepared by Office of Public Affairs]. 1967. 40 p. il. \* Paper, 50c. ● Item 128-A C 1.8/3: C 73/967  
L.C. card 67-62965

## CONGRESS

- 17485 Congressional record, proceedings and debates of 89th Congress, 2d session, v. 112, pt. 9, May 19-June 6, 1966. [Permanent edition.] 1966. [1]+10981-12444 p. 4° \* Cloth, \$4.75. ● Item 993 X 89/2: 112/pt.9  
L.C. card 12-36438

NOTE.—In the permanent bound edition, the paging differs from that of the daily numbers, the text being revised, rearranged, and printed without break. Extraneous matter appearing in the Appendix is omitted from the permanent form of the Congressional record.

# GOVERNMENT PUBLICATIONS

## Congressional serial set

NOTE.—During each session of Congress the House and Senate documents and reports are accumulated into bound volumes comprising the Congressional serial set. No catalog entry is made for the volumes of the Serial set since the documents and reports contained therein have been previously listed in the Monthly catalog.

The following bound volumes were sent to depository libraries during the period of this catalog:

### House documents:

- 17486 nos. 100-245, with exceptions, 89th Congress, 1st session, House miscellaneous documents III [Serial 12677-3]. ● Item 995-G

### House reports:

- 17487 nos. 15-1181, with exceptions, 89th Congress, 1st session, House special reports [Serial 12667-2]. ● Item 1007-A  
nos. 1100-1210, with exceptions, 89th Congress, 1st session, House miscellaneous reports on public bills VII [Serial 12665-7]. ● Item 1007-A

### Senate documents:

- 17488 nos. 2-40, with exceptions, 89th Congress, 1st session, Senate miscellaneous documents I [Serial 12668-1]. ● Item 995-G  
no. 45, 90th Cong., 1st session., Report of the Secretary of the Senate, Jan. 1-June 30, 1967 [Serial 12758-2]. ● Item 995-M

### Senate reports:

- 17489 nos. 1-939, with exceptions, 89th Congress, 1st session, Senate special reports [Serial 12664]. ● Item 1007-A

## Laws

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

### Private laws, 90th Congress. † House or Senate Document Rooms, Capitol.

- 17490 93. S. 534, act for relief of Setsuko Wilson (nee Hiranaka). Approved Oct. 10, 1967. 1 p.  
17491 94. S. 117, act for relief of Martha Blankenship. Approved Oct. 11, 1967. 1 p.  
17492 95. S. 985, act for relief of Warren F. Coleman, jr. Approved Oct. 18, 1967. 1 p.  
17493 96. H.R. 6189, act for relief of Fred W. Kolb, jr. Approved Oct. 25, 1967. 1 p.  
17494 97. H.R. 1674, act for relief of Frank I. Mellin, jr. Approved Oct. 25, 1967. 1 p.  
17495 98. H.R. 1572, act for relief of Mercedes De Toffoli. Approved Oct. 27, 1967. 1 p.  
17496 99. H.R. 1653, act for relief of Omer Penner. Approved Oct. 27, 1967. 1 p.  
17497 100. H.R. 2477, act for relief of John J. McGrath. Approved Oct. 27, 1967. 1 p.  
17498 101. H.R. 6663, act for relief of Jesse W. Stutts, jr. Approved Oct. 27, 1967. 1 p.  
17499 102. H.R. 6666, act for relief of Marilyn Shorette. Approved Oct. 27, 1967. 1 p.  
17500 103. H.R. 7324, act for relief of Alfredo F. Mendez. Approved Oct. 27, 1967. 1 p.  
17501 104. H.R. 8254, act for relief of Jan Drobot. Approved Oct. 27, 1967. 1 p.  
17502 105. S. 43, act for relief of Mi Soon Oh. Approved Oct. 31, 1967. 1 p.  
17503 106. S. 63, act for relief of Enrique Alberto Rojas-Villa. Approved Oct. 31, 1967. 1 p.  
17504 107. S. 64, act for relief of Luis Osvaldo Martinez-Farinas. Approved Oct. 31, 1967. 1 p.  
17505 108. S. 221, act for relief of Armando Perez Simon. Approved Oct. 31, 1967. 1 p.  
17506 109. S. 440, act for relief of Julio Alejandro Solano. Approved Oct. 31, 1967. 1 p.  
17507 110. S. 733, act for relief of Sablene Elizabeth DeVore. Approved Oct. 31, 1967. 1 p.  
17508 111. S. 741, act for relief of Rumiko Samanski. Approved Oct. 31, 1967. 1 p.  
17509 112. S. 821, act for relief of Julio Domingo Hernandez. Approved Oct. 31, 1967. 1 p.  
17510 113. S. 975, act for relief of Mitsuo Blomstrom. Approved Oct. 31, 1967. 1 p.  
17511 114. S. 1021, act for relief of Antonio Luis Navarro. Approved Oct. 31, 1967. 1 p.  
17512 115. S. 1106, act for relief of David Castaneda. Approved Oct. 31, 1967. 1 p.  
17513 116. S. 1110, act for relief of Manuel Alpendre Seisdedos. Approved Oct. 31, 1967. 1 p.  
17514 117. S. 1197, act for relief of Lucio Arsenio Travieso y Perez. Approved Oct. 31, 1967. 1 p.  
17515 118. S. 1269, act for relief of Gonzalo G. Rodriguez. Approved Oct. 31, 1967. 1 p.  
17516 119. S. 1279, act for relief of Francisco Montes. Approved Oct. 31, 1967. 1 p.  
17517 120. S. 1280, act for relief of Alfredo Perelra. Approved Oct. 31, 1967. 1 p.  
17518 121. S. 1458, act for relief of Lee Duk Hee. Approved Oct. 31, 1967. 1 p.  
17519 122. S. 1471, act for relief of Hugo Gonzalez. Approved Oct. 31, 1967. 1 p.  
17520 123. S. 1482, act for relief of Ernesto Nestor Prieto. Approved Oct. 31, 1967. 1 p.  
17521 124. S. 1525, act for relief of Mario R. Garcini. Approved Oct. 31, 1967. 1 p.  
17522 125. S. 1557, act for relief of Carlos E. Gargica. Approved Oct. 31, 1967. 1 p.  
17523 126. S. 1647, act for relief of Maria del Carmen Trabadelo de Arias. Approved Oct. 31, 1967. 1 p.  
17524 127. S. 1678, act for relief of American Petrofina Company of Texas, Delaware corporation, and James W. Harris. Approved Oct. 31, 1967. 1 p.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17525 128. S. 1709, act for relief of Antonio Martin Ruiz del Castillo. Approved Oct. 31, 1967. 1 p.
- 17526 129. S. 1748, act for relief of Ramiro de la Riva Dominguez. Approved Oct. 31, 1967. 1 p.
- 17527 130. S. 1938, act for relief of Orlando Hipolito Maytin. Approved Oct. 31, 1967. 1 p.
- 17528 131. H.R. 1948, act for relief of Lim Al Ran and Lim Soo Ran. Approved Oct. 31, 1967. 1 p.
- 17529 132. H.R. 1960, act for relief of Angellique Kousoulas. Approved Oct. 31, 1967. 1 p.
- 17530 133. H.R. 2464, act for relief of Yoo Young Hui, and daughter, Ok Young. Approved Oct. 31, 1967. 1 p.
- 17531 134. H.R. 2978, act for relief of Yong Ok Espantoso. Approved Oct. 31, 1967. 1 p.
- 17532 135. H.R. 3430, act for relief of Yim Mei Lam. Approved Oct. 31, 1967. 1 p.
- 17533 136. H.R. 3497, act for relief of Ramiro Velasquez Huerta. Approved Oct. 31, 1967. 1 p.
- 17534 137. H.R. 4534, act for relief of Mary Bernadette Linehan. Approved Oct. 31, 1967. 1 p.
- 17535 138. H.R. 5216, act for relief of Roberto Martin Del Campo. Approved Oct. 31, 1967. 1 p.

## Public laws, 90th Congress. • Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C. 20402, at a subscription price of \$12.00 per session, \$2.00 additional for foreign mailing; single copies vary in price.

- 17536 82. H.R. 11945, act to amend college work-study program with respect to institutional matching and permissible hours of work. Approved Sept. 6, 1967. 1 p. \* Paper, 5c.
- 17537 83. H.R. 5876, act to amend titles 5, 14, and 37, United States Code, to codify recent law, and to improve Code. [Approved Sept. 11, 1967.] 30 p. \* Paper, 15c.
- 17538 84. S. 1633, act to amend act of June 12, 1960, relating to Potomac interceptor sewer, to increase amount of Federal contribution to cost of that sewer. Approved Sept. 11, 1967. 1 p. \* Paper, 5c.
- 17539 85. H.R. 547, act to authorize Secretary of Agriculture to sell Pleasanton Plant Materials Center in Alameda County, Calif., and to provide for establishment of plant materials center at more suitable location to replace Pleasanton Plant Materials Center, and for other purposes. Approved Sept. 11, 1967. 1 p. \* Paper, 5c.
- 17540 86. H.R. 9837, act to amend Legislative branch appropriation act, 1959, as it relates to transportation expenses of Members of House of Representatives, and for other purposes. Approved Sept. 17, 1967. 1 p. \* Paper, 5c.
- 17541 87. S. 1956, act to extend for 1 year authority for more flexible regulation of maximum rates of interest or dividends, higher reserve requirements, and open market operations in agency issues. Approved Sept. 21, 1967. 1 p. \* Paper, 5c.
- 17542 88. H.R. 9547, act to amend Inter-American Development Bank act to authorize United States to participate in increase in resources of fund for special operations of Inter-American Development Bank, and for other purposes. [Approved Sept. 22, 1967.] 2 p. \* Paper, 5c.
- 17543 89. S. 1601, act to increase appropriation authorization for continuing work in Missouri River Basin by Secretary of Interior. Approved Sept. 22, 1967. 1 p. \* Paper, 5c.
- 17544 90. S. 828, act to amend sec. 5(b) of act of Mar. 18, 1966 (Public law 89-372), so as to make prohibition contained therein on filing of certain vacancies in office of district judge for eastern district of Pennsylvania inapplicable to first vacancy occurring after enactment of such act. Approved Sept. 23, 1967. 1 p. \* Paper, 5c.
- 17545 91. S. 953, act to amend Food stamp act of 1964. Approved Sept. 27, 1967. 1 p. \* Paper, 5c.
- 17546 101. S.J. Res. 109, joint resolution to authorize and request the President to issue proclamation commemorating 50 years of service to the Nation by Langley Research Center. Approved Oct. 3, 1967. 1 p. \* Paper, 5c.
- 17547 102. H.J. Res. 853, joint resolution making continuing appropriations for fiscal year 1968, and for other purposes. Approved Oct. 5, 1967. 1 p. \* Paper, 5c.
- 17548 103. S. 602, act to revise and extend Appalachian regional development act of 1965, and to amend Public works and economic development act of 1965. [Approved Oct. 11, 1967.] 12 p. \* Paper, 10c.
- 17549 104. S. 1862, act to amend authorizing legislation of Small Business Administration, and for other purposes. [Approved Oct. 11, 1967.] 6 p. \* Paper, 5c.
- 17550 105. To provide for acquisition of career status by certain temporary employees of Federal Government, and for other purposes. [Approved Oct. 11, 1967.] 3 p. \* Paper, 5c.
- 17551 106. S. 1564, act to amend marketing quota provisions of Agricultural adjustment act of 1938, as amended. Approved Oct. 12, 1967. 1 p. \* Paper, 5c.
- 17552 107. S. 2162, act to amend act of Jan. 17, 1936 (49 Stat. 1094), reserving certain public domain lands in Nevada and Oregon as grazing reserve for Indians of Fort McDermitt, Nev. Approved Oct. 12, 1967. 1 p. \* Paper, 5c.

# GOVERNMENT PUBLICATIONS

## Public laws, 90th Congress—Continued

- 17553 108. S. 2310, act to provide more effectively for regulation of use of, and for preservation and safety and order within United States Capitol Buildings and Capital Grounds, and for other purposes. [Approved Oct. 20, 1967.] 3 p. \* Paper, 5c.
- 17554 109. H.R. 3979, act to amend sec. 6409 (b) (1) of title 39, United States Code, which relates to transportation compensation paid by Postmaster General. Approved Oct. 21, 1967. 1 p. \* Paper, 5c.
- 17555 110. H.R. 11722, act to authorize certain construction at military installations and for other purposes. [Approved Oct. 21, 1967.] 33 p. \* Paper, 15c.
- 17556 111. S. 2121, act to extend provisions of act of Oct. 23, 1962, relating to relief for occupants of certain unpatented mining claims. Approved Oct. 23, 1967. 1 p. \* Paper, 5c.
- 17557 112. H.R. 11456, act making appropriations for Department of Transportation for fiscal year 1968, and for other purposes. [Approved Oct. 23, 1967.] 8 p. \* Paper, 5c.
- 17558 113. H.R. 10590, act making appropriations for Department of Agriculture and related agencies for fiscal year 1968, and for other purposes. [Approved Oct. 24, 1967.] 16 p. \* Paper, 10c.
- 17559 114. H.R. 678, act to provide for disposition of funds appropriated to pay judgment in favor of Upper and Lower Chehalis Tribes of Indians in Claims Commission docket numbered 237, and for other purposes. Approved Oct. 24, 1967. 1 p. \* Paper, 5c.
- 17560 115. H.R. 3973, act to amend Healing arts practice act, District of Columbia, 1928, and act of June 6, 1892, relating to licensing of dentists in District of Columbia, to exempt from licensing requirements of such acts physicians and dentists while performing services in employ of District of Columbia. [Approved Oct. 24, 1967.] 2 p. \* Paper, 5c.
- 17561 116. H.J. Res. 516, joint resolution to amend joint resolution of Mar. 25, 1953, to increase number of electric typewriters which may be furnished to Members by Clerk of House. Approved Oct. 24, 1967. 1 p. \* Paper, 5c.

## ECONOMIC JOINT COMMITTEE Washington, DC 20510

- 17562 August review of 1968 budget, hearing, 90th Congress, 1st session, Aug. 24, 1967. 1967. iii+63 p. \* Paper, 20c. ● Item 1000  
L.C. card 67-62823 Y 4.Ec 7: B 85/3
- 17563 New plan for international monetary reserves, hearing before Subcommittee on International Exchange and Payments, 90th Congress, 1st session, Sept. 14, 1967. 1967. iii+91 p. il. \* Paper, 30c. ● Item 1000  
L.C. card 67-62804 Y 4.Ec 7: M 74/15
- 17564 Nov. 1967 supplement to Committee publications and policies governing their distribution, 90th Cong. 1st sess. [1967.] 2 p. 4° (Committee print.) ‡  
L.C. card 67-61459 Y 4.Ec 7: P 96/947-66/supp.

## HOUSE OF REPRESENTATIVES Washington, DC 20515

### House documents

NOTE.—All House documents, entries for which are followed by a ‡, may be obtained from the House Document Room or from the issuing office.

#### House documents, 79th Congress.

- 17565 779, pt. 1. Foreign relations of United States, diplomatic papers 1945: v. 1, General, United Nations. 1967. lviii+1611 p. ([Publication 8294; Historical Office, Bureau of Public Affairs.]) \* (Available in departmental edition, cloth, \$5.25, S 1.1: 945/v. 1, and sent to depositories in that form. See Entry no. 18230.)

#### House documents, 90th Congress.

- 17566 29. Outdoors USA [yearbook of agriculture 1967; Jack Hayes, editor]. [1967.] xxxix+408 p. il. [Illustrated lining papers attached to front and back covers. Yearbook is made up of signed articles.] \* (Available in departmental edition, cloth, \$2.75, A 1.10: 967 and sent to depositories in that form. See Entry no. 17325.)
- 17567 160. Annual report of Postmaster General, Post Office Department, July 1, 1966-June 30, 1967. [1967.] viii+166 p. il. \* (Available in departmental edition, 60c., and sent to depositories in that form. See Entry no. 18136.)
- 17568 168. Lake Chicot, Ark., letter from chief of engineers, Army, submitting report on reviews of report; Sept. 20, 1967. 1967. xxx+149 p. il. 3 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17731.] ‡

\*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17569 169. Little Blue River, vicinity of Kansas City, Mo., letter from chief of engineers, Army, submitting report on review of report; Sept. 21, 1967. [1967.] xxii+143 p. il. 2 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17732.]
- 17570 174. Bristol Harbor, R.I., letter from chief of engineers, Army, submitting report on review of reports; Oct. 11, 1967. [1967.] xi+52 p. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17730.] †

## House reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on public bills, 90th Congress. †House Document Room, Capitol. (No. 815 is sold by Superintendent of Documents.) ● Item 1008-A

- 17571 602. Amending sec. 2733 of title 10 of United States Code, to include authority for settlement of claims incident to noncombat activity of Coast Guard while it is operating as service in Department of Transportation, to increase authority which may be delegated to officer under subsection (G) of sec. 2733 from \$1,000 to \$2,500, and for other purposes. Report from Committee on Judiciary to accompany H.R. 206. Aug. 24, 1967. 16 p.
- 17572 786. National flood insurance act of 1967. Report of Committee on Banking and Currency on S. 1985; Oct. 16, 1967. 1967. ii+59 p. il. [Includes supplemental views.] L.C. card 67-62948
- 17573 795. Congressional redistricting. Conference report to accompany H.R. 2508. Oct. 19, 1967. 4 p.
- 17574 798. Consideration of S. 1985. Report from Committee on Rules to accompany H. Res. 953. Oct. 19, 1967. 1 p.
- 17575 800. Administration of research grants in Public Health Service. 9th report by Committee on Government Operations; Oct. 20, 1967. 1967. viii+113 p. L.C. card 67-62950
- 17576 804. NASA appropriations, 1968. Conference report to accompany H.R. 12474. Oct. 20, 1967. 3 p.
- 17577 811. Naming Federal office building, Detroit, Mich., in honor of the late Patrick V. McNamara. Report from Committee on Public Works to accompany S. 343. Oct. 24, 1967. 3 p.
- 17578 815. Automobile insurance study. Report by staff of Antitrust Subcommittee (subcommittee no. 5) of Committee on Judiciary, pursuant to H. Res. 40; Oct. 24, 1967. 1967. viii+183 p. 1 tab. \* Paper, 60c. L.C. card 67-62949
- 17579 818. Consideration of H.R. 12144. Report from Committee on Rules to accompany H. Res. 957. Oct. 24, 1967. 1 p.
- 17580 823. National Aeronautics and Space Administration appropriation bill, 1968. Conference report to accompany H.R. 12474. Oct. 25, 1967. 3 p.
- 17581 866. Economic opportunity amendments of 1967. Report from Committee on Education and Labor to accompany S. 2358. Oct. 27, 1967. 218 p. [Includes separate dissenting views, separate minority views, additional views, and additional minority views.]
- 17582 880. Consideration of H.R. 13094. Report from Committee on Rules to accompany H. Res. 963. Nov. 1, 1967. 1 p.

## Agriculture Committee, House Washington, DC 20515

[Committee hearings] serial, 90th Congress. ● Item 1010

- 17583 O. Effect of Federal programs on rural America, hearings before Subcommittee on Rural Development, 90th Congress, 1st session, June 6-July 12, 1967. 1967. v+876 p. † Y 4.Ag8/1:RSS/9  
L.C. card 67-62800
- 17584 R. Amend Grain standards act, hearings before Subcommittee on Livestock and Grains, 90th Congress, 1st session, on H.R. 2121 and H.R. 11162. L.C. card 67-62357 Y 4.Ag8/1:G76/5/967/pt.1  
pt. 1. Sept. 12-14, 1967. 1967. iii+1-97 p. † (Information incorrect in publication as to sale by Superintendent of Documents).
- 17585 U. Rural telephone supplemental financing, hearings, 90th Congress, 1st session, on H.R. 12066, Aug. 23 and 24, 1967. 1967. iii+77 p. † Y 4.Ag8/1:T23/3  
L.C. card 67-62621
- 17586 V. Summer home permits in national forests, hearing before Subcommittee on Forests, 90th Congress, 1st session, on H.R. 11360 and H.R. 11370, Sept. 27, 1967. 1967. iii+23 p. † Y 4.Ag8/1:F76/42  
L.C. card 67-62589
- 17587 X. Provide food and medical services on emergency basis, hearing, 90th Congress, 1st session, on S. 2138, Oct. 5, 1967. 1967. iii+95 p. † L.C. card 67-62551
- 17588 Y. Permit advance payments to wheat producers, hearing before Subcommittee on Livestock and Grains, 90th Congress, 1st session, on H.R. 6437, H.R. 6438, H.R. 6439, H.R. 6440, and H.R. 7574, July 11, 1967. 1967. iii+22 p. † Y 4.Ag8/1:W56/25

ΦFor Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

[Committee hearings] serial, 90th Congress—Continued

- 17589 BB. Encourage exportation of agricultural commodities, hearing before Subcommittee on Foreign Agricultural Operations, 90th Congress, 1st session, on H.R. 7475, H.R. 7986, H.R. 8205, H.R. 8214, H.R. 8369, and H.R. 8448, Oct. 3, 1967. 1967. iii+41 p. †  
L.C. card 67-62900 Y 4.Ag8/1: Ex7/7

## *Armed Services Committee, House* Washington, DC 20515

[Papers], 90th Congress. † ● Item 1012 Y 4.Ar 5/2a: 967-68/(nos.)

NOTE.—These papers consist largely of hearings. They are paged continuously for binding at the end of session of Congress under title "Hearings before Committee on Armed Services of the House of Representatives on sundry legislation affecting the naval and military establishments." Title page, contents, and index are issued for each volume.

- 17590 19. Hearings before Special Subcommittee on M-16 Rifle Program, 90th Congress, 1st session, May 15-Aug. 22, 1967. [1967.] cover title, 4431-5019+x p. ll. L.C. card 67-62827
- 17591 26. Report of Special Subcommittee on M-16 Rifle Program, 90th Congress, 1st session, Oct. 19, 1967. 1967. v+5321-72 p. L.C. card 67-62826
- 17592 27. Full committee hearings on H.R. 8197, H.R. 9069, and H.R. 13510 (bills to increase basic pay and adjust retired pay and retainer pay for members and former members of uniformed services). [1967.] p. 5373-5455.
- 17593 28. Subcommittee no. 3 hearings on H.R. 1341, to amend sec. 701 of title 10, United States Code, to authorize additional accumulation of leave in certain foreign areas, and H.R. 3982, to amend sec. 409 of title 37, United States Code, relating to transportation of house trailers and mobile dwellings of members of uniformed services. [1967.] p. 5457-78.

## *Banking and Currency Committee, House* Washington, DC 20515

- 17594 Consumer credit protection act, hearings before Subcommittee on Consumer Affairs, 90th Congress, 1st session, on H.R. 11601 and related bills. †  
● Item 1013  
L.C. card 67-62846 Y 4.B22/1: C76/3/pt.1, 2  
pt. 1. Aug. 7-14, 1967. 1967. x+1-592 p. ll.  
pt. 2. Aug. 15-18, 1967, and appendixes. 1967. x+593-1221 p. ll. 1 tab.
- 17595 Extension of temporary interest rate controls, hearings, 90th Congress, 1st session, on H.R. 12754, Sept. 14 and 15, 1967. 1967. v+125 p. ll. †  
● Item 1013  
L.C. card 67-62801 Y 4.B22/1: In8/14

## *District of Columbia Committee, House* Washington, DC 20515

- 17596 Amend statute of limitations, hearing before subcommittee no. 1, 90th Congress, 1st session, on H.R. 6527, H.R. 6678, and H.R. 11544, Oct. 2, 1967. 1967. iv+51 p. [Includes H. rp. 741 on H.R. 6527, issued Oct. 6, 1967.] † ● Item 1014  
L.C. card 67-62796 Y 4.D 63/1: St 2
- 17597 Election of Board of Education, hearing, 90th Congress, 1st session, on H.R. 12454, H.R. 12415, H.R. 12416, and H.R. 12574, Aug. 24, 1967. 1967. iii+66 p. † ● Item 1014  
L.C. card 67-62786 Y 4.D 63/1: Ed 8/5/967
- 17598 Public space utilization, hearing before Subcommittee no. 3, 90th Congress, 1st session, on H.R. 12506, H.R. 12507, H.R. 9072, and H.R. 10470, H.R. 12508, Oct. 20, 1967. 1967. iv+101 p. ll. map. † ● Item 1014  
L.C. card 67-62813 Y 4.D 63/1: Sp 1

## *Education and Labor Committee, House* Washington, DC 20515

- 17599 Amendments to National Foundation on the Arts and the Humanities act of 1965, hearings before Special Subcommittee on Labor, 90th Congress, 1st session, on H.R. 11308, July 18 and 26, 1967. 1967. vi+149 p. † ● Item 1015  
L.C. card 67-62784 Y 4.Ed 8/1: N 21f/2

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# DECEMBER 1967

- 17600 Amendments to Vocational rehabilitation act, hearings before Select subcommittee on Education, 90th Congress, 1st session, on H.R. 8981 and similar bills, July 18-27, 1967. 1967. iv+155 p. † ● Item 1015  
L.C. card 67-62856 Y 4.Ed 8/1: V 85/967

- 17601 Economic opportunity act amendments of 1967, hearings, 90th Congress, 1st session, on H.R. 8311. † ● Item 1015  
L.C. card 67-62314 Y 4.Ed 8/1: Ec 7/967/pt. (nos.)  
pt. 3. July 12-19, 1967. 1967. vii+1605-2470 p.  
pt. 4. July 20-Aug. 1, 1967. 1967. ix+2471-3660 p. il.

## *Government Operations Committee, House* Washington, DC 20515

- 17602 Payment of travel expenses of applicants for Federal employment, hearing before subcommittee, 90th Congress, 1st session, on H.R. 9382, Sept. 13, 1967. 1967. iii+46 p. † ● Item 1016  
L.C. card 67-62582 Y 4.G 74/7: T 69/3/967
- 17603 Recreational boating safety, hearing before subcommittee, 90th Congress, 1st session, July 31, 1967. 1967. iii+117 p. † ● Item 1016  
L.C. card 67-62825 Y 4.G 74/7: B 63

## *Interior and Insular Affairs Committee, House* Washington, DC 20515

[Committee hearings] serial, 90th Congress.

- 17604 11. Redwood National Park, hearings before Subcommittee on National Parks and Recreation, 90th Congress, 1st session, on H.R. 1311 and related bills.  
pt. 1. June 27-July 19, 1967. 1967. v+1-248 p. † ● Item 1023  
Y 4.In 8/14: 90-11/pt.1

## *Interstate and Foreign Commerce Committee, House* Washington, DC 20515

[Committee hearings] serial, 90th Congress.

- 17605 12. Animal drug amendments of 1967, hearing before Subcommittee on Public Health and Welfare, 90th Congress, 1st session, on H.R. 3639 and identical bills. 1967. iv+66 p. il. † ● Item 1019  
L.C. card 67-62815 Y 4.In 8/4: 90-12

## *Judiciary Committee, House* Washington, DC 20515

[Committee hearings] serial, 90th Congress.

- 17606 8. Naturalization, hearings before subcommittee no. 1, 90th Congress, 1st session, on H.R. 2138, July 27 [and] Aug. 24, 1967. 1967. iii+66 p. † ● Item 1020  
L.C. card 67-62788 Y 4.J 89/1: 90-8

## *Post Office and Civil Service Committee, House* Washington, DC 20515

[Committee hearings] serial, 90th Congress. † ● Item 1022  
Y 4.P 84/10: 90-(nos.)

- 17607 19. Franked mail, ratio of substitute to regular postal employees, hearings before Subcommittee on Postal Operations, 90th Congress, 1st session, on H.R. 11060, H.R. 438 and H.R. 8924, June 27 and 28, 1967. 1967. iii+57 p.  
L.C. card 67-62803
- 17608 20. Obscene and pandering advertisement mail matter, hearing before Subcommittee on Postal Operations, 90th Congress, 1st session, on H.R. 426, H.R. 8215: pt. 2, June 9, 1967. 1967. iii+35-79 p. [Hearing held in Philadelphia, Pa.]  
L.C. card 67-61401
- 17609 21. ASCS county office employees, hearing before Subcommittee on Manpower and Civil Service, 90th Congress, 1st session, on H.R. 6299 and S. 1028, Oct. 10, 1967. 1967. iii+33 p.  
L.C. card 67-62847
- 17610 Decision of Comptroller General regarding administrative leave to employees representing Government employee organizations, Subcommittee on Manpower, 89th Congress, 2d session; July 1966. 1966. v+6 p. (Committee print.) †  
L.C. card 66-62495 Y 4.P 84/10: L 48/5

# GOVERNMENT PUBLICATIONS

## *Public Works Committee, House*

Washington, DC 20515

- 17611 Advance acquisition of highway rights-of-way study, transmitted by Secretary of Department of Transportation to Congress, as required by Federal-aid highway act of 1966 (Public law 89-574, 89th Congress, Sept. 13, 1966); July 1967. 1967. v+107 p. il. (Committee print 8, 90th Congress, 1st session.) †  
L.C. card 67-62863 Y 4.P 96/11: 90-8

## *Science and Astronautics Committee, House*

Washington, DC 20515

[Paper], 90th Congress, 1st session.

- 17612 6. International biological program, hearings before Subcommittee on Science, Research, and Development, 90th Congress, 1st session, on H. Con. Res. 273, May 9-Aug. 9, 1967. 1967. iv+449 p. † ● Item 1025-A Y 4.Sci 2: 90-1/6  
L.C. card 67-62828

## *Veterans' Affairs Committee, House*

Washington, DC 20515

- 17613 Income limitations under VA pension and DIC programs, hearings before Subcommittee on Compensation and Pension, 90th Congress, 1st session, income limitations under pension and dependency and indemnity compensation programs and effect of retirement income increases on beneficiaries, Sept. 19-26, 1967. 1967. iv+2025-2045 p. † ● Item 1027  
L.C. card 67-62816 Y 4.V 64/3: In 2/5

## *Ways and Means Committee, House*

Washington, DC 20515

- 17614 President's 1967 tax proposals, hearings, 90th Congress, 1st session, on tax proposals of the President contained in his message transmitted to Congress Aug. 3, 1967, Aug. 14-Sept. 14, 1967. ● Item 1028.  
L.C. card 67-62829 Y 4.W 36: T 19/26/967/pt. (nos.)  
pt. 1. Aug. 14-25, 1967. 1967. xi+1-391 p. il. \* Paper, \$1.00.  
pt. 2. Aug. 28-Sept. 14, and material received for the record. 1967. xi+393-638b, 639-835 p. il. \* Paper, \$1.25.

## SENATE

Washington, DC 20510

### *Senate documents*

NOTE.—All Senate documents, entries for which are followed by a †, may be obtained from the Senate Document Room or from the issuing office.

Senate documents, 90th Congress.

- 17615 49. Manpower and training needs in water pollution control, report of Department of Interior, Federal Water Pollution Control Administration to Congress of United States in compliance with Public law 89-753, Aug. 2, 1967; Aug. 31, 1967. 1967. vi+50 p. il. \* Paper, 20c. ● Item 996  
L.C. card 67-62946
- 17616 51. Norwalk River basin, Conn. and N.Y., letter from chief of engineers, Army, submitting report on interim report; Oct. 16, 1967. 1967. xvii+50 p. 2 pl. 4\* [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17733.]
- 17617 55. Research in service of man: Biomedical knowledge, development, and use, conference sponsored by Subcommittee on Government Research (pursuant to S. Res. 218, 89th Cong.) and Frontiers of Science Foundation of Oklahoma for Committee on Government Operations, Senate, held at Oklahoma City, Okla., Oct. 24-27, 1966. [proceedings, with bibliography]; Nov. 2, 1967. 1967. ix+246 p. il. [Also issued in committee print form.] \* Paper, 70c. ● Item 996  
L.C. card 67-62951

### *Senate executive document*

Senate executive document, 90th Congress, 1st session.

- 17618 O. Convention on International Hydrographic Organization, message from President of United States transmitting convention on International Hydrographic Organization, done Monaco May 3, 1967, and signed for United States, Sept. 13, 1967; Oct. 24, 1967. 1967. vi+26 p. † Y 1.90/1: O

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

*Senate executive reports*

Senate executive reports, 90th Congress, 1st session. †  
Y 1.90/1: rp. (nos.)

- 17619 17. Supplementary slavery convention. Report from Committee on Foreign Relations to accompany Ex. L, 88th Cong. 1st sess. Oct. 31, 1967. 6 p.  
17620 18. Tax conventions with Canada, and Trinidad and Tobago. Report from Committee on Foreign Relations to accompany Exs. B and F, 90th Cong. 1st sess. Nov. 1, 1967. 11 p.

*Senate reports*

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

Senate reports on private bills, 90th Congress. † Senate Document Room, Capitol. ● Item 1008-B

- 17621 657. Mary Bernadette Linehan. Report from Committee on Judiciary to accompany H.R. 4534. Oct. 18, 1967. 4 p.

Senate reports on public bills, 90th Congress. † Senate Document Room, Capitol. ● Item 1008-A

- 17622 575. Authorize and request the President to issue proclamation commemorating 50 years of service to the Nation by Langley Research Center. Report from Committee on Judiciary to Accompany S.J. Res. 109. Sept. 29, 1967. 3 p.  
17623 586. Amending District of Columbia traffic act, 1925, as amended, and Motor vehicle safety responsibility act of District of Columbia, as amended, so as to bring within provisions of such acts any person operating motor vehicle while under influence of drug rendering such person incapable of operating motor vehicle safely. Report from Committee on District of Columbia to accompany S. 765. Oct. 6, 1967. 6 p.  
17624 641. Authorizing establishment of Redwood National Park in California, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany S. 2515. Oct. 12, 1967. 32 p. map. [Includes individual views of Mr. Anderson.] L.C. card 67-62947  
17625 671. Legislative jurisdiction over lands, U.S. Naval Station, Long Beach, Calif. Report from Committee on Armed Services to accompany H.R. 11767. Oct. 19, 1967. 6 p.  
17626 673. Authorizing service Secretaries to initiate allotments to uniformed savings deposit program for persons missing in action or captured by enemy. Report from Committee on Armed Services to accompany H.R. 4772. Oct. 23, 1967. 6 p.  
17627 683. Conveying certain land to Squaxin Island Tribe of Indians. Report from Committee on Interior and Insular Affairs to accompany H.R. 8580. Oct. 25, 1967. 4 p.  
17628 688. Survey of U.S. coastal and fresh water fishery resources. Report from Committee on Commerce to accompany S.J. Res. 103. Oct. 25, 1967. 7 p.  
17629 694. Authorizing appropriation of funds for Cape Hatteras National Seashore. Report from Committee on Interior and Insular Affairs to accompany S. 561. Oct. 31, 1967. 4 p.  
17630 696. Conveying certain property in Georgia. Report from Committee on Interior and Insular Affairs to accompany H.R. 5364. Oct. 31, 1967. 3 p.  
17631 700. Authorizing establishment of North Cascades National Park, Ross Lake National Recreation Area, Lake Chelan National Recreation Area, designating Pasayten Wilderness, and modifying Glacier Peak Wilderness, in Washington, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany S. 1321. Oct. 31, 1967. 42 p. ll.  
17632 718. Masters' lien. Report from Committee on Commerce to accompany H.R. 162. Nov. 2, 1967. 12 p.

*Aging, Special Committee on, Senate*  
Washington, DC 20510

- 17633 Costs and delivery of health services to older Americans, hearings before Subcommittee on Health of the Elderly, 90th Congress, 1st session. L.C. card 67-62818 Y 4.Ag 4: H 34/9/pt.1  
pt. 1. June 22 and 23, 1967. 1967. iv+1-356 p. ll. \* Paper, \$1.00. ● Item 1009

*Agriculture and Forestry Committee, Senate*  
Washington, DC 20510

- 17634 World Farm Center, hearing before subcommittee, 90th Congress, 1st session, on H. Con. Res. 413, Sept. 26, 1967. 1967. ii+15 p. † ● Item 1032  
L.C. card 67-62812 Y 4.Ag 8/2: W 89

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

GOVERNMENT PUBLICATIONS

*Appropriations Committee, Senate*

*Washington, DC 20510*

- 17635 Continuing resolution, fiscal year 1968 (H.J. Res. 888), hearings, 90th Congress, 1st session, H.J. Res. 888, Oct. 9 and 20, 1967. 1967. ii+84 p. † ● Item 1033  
L.C. card 67-62820 Y 4.Ap 6/2: Ap 6/5/968
- 17636 District of Columbia appropriations for fiscal year 1968, hearings before subcommittee, 90th Congress, 1st session, on H.R. 8569. † ● Item 1033  
L.C. card 60-60679 Y 4.Ap 6/2: D 63/968/pt. (nos.)
- pt. 1. [Adult education center, Executive Office, general operating expenses, outside witnesses, public health, public schools, sanitary engineering, veterans' affairs]. 1967. ii+1-1578+xiii p.
- pt. 2. [Federal obligation, loans and interest, public welfare, vocational rehabilitation.] 1967. ii+1579-2573+xlii p.
- pt. 3. [Amendments requested, Ball Agency and legal aid, corrections, crime inquiry, courts, police, probation and parole, metropolitan police.] 1967. ii+2575-3708+xlii p.
- 17637 Military construction appropriations for fiscal year 1968, hearings before subcommittee of Committee on Appropriations and Committee on Armed Services, Senate, 90th Congress, 1st session, on H.R. 13606. 1967. ii+1007+xxv p. il. † ● Item 1033 & 1034  
L.C. card 60-61661 Y 4.Ap 6/2: M 59/3/968

*Armed Services Committee, Senate*

*Washington, DC 20510*

- 17638 Military construction appropriations for fiscal year 1968, hearings. See Appropriations Committee, Senate.
- 17639 Nominations, hearings, 90th Congress, 1st session, on Thomas H. Nielson, of California, to be Assistant Secretary of Air Force, Price Daniel, of Texas, to be director of Office of Emergency Planning, Alfred B. Fitt, of Michigan, to be Assistant Secretary of Defense, Sept. 21 and Oct. 5, 1967. 1967. iii+18 p. † ● Item 1034  
L.C. card 67-62896 Y 4.Ar 5/3: N 72/9/967-2
- 17640 Reserve components of Armed Forces and National Guard technicians, hearings, 90th Congress, 1st session, on H.R. 2, June 26-Oct. 3, 1967. 1967. iii+304 p. † ● Item 1034  
L.C. card 67-62791 Y 4.Ar 5/3: R 31/19

*Banking and Currency Committee, Senate*

*Washington, DC 20510*

- 17641 Fair housing act of 1967, hearings before Subcommittee on Housing and Urban Affairs, 90th Congress, 1st session, on S. 1358, S. 2114, and S. 2280, Aug. 21-23, 1967. 1967. viii+508 p. il. [Contains copyright material.] † ● Item 1035  
L.C. card 67-62802 Y 4.B 22/3: H 81/54/967
- 17642 Interstate land sales full disclosure act of 1967, hearings before Subcommittee on Securities, 90th Congress, 1st session, on S. 275, Feb. 28 and Mar. 1, 1967. 1967. vii+314 p. il. 1 tab. † ● Item 1035  
L.C. card 67-62612 Y 4.B 22/3: L 22/4/967
- 17643 Rehabilitation programs, report by Department of Housing and Urban Development to Subcommittee on Housing and Urban Affairs; Aug. 1967. 1967. ix+52 p. (Committee print, 90th Congress, 1st session.) ‡  
L.C. card 67-62870 Y 4.B 22/3: R 26
- 17644 Small business crime insurance, hearings before Subcommittee on Small Business, 90th Congress, 1st session, on S. 1484, Sept. 13 and 15, 1967. 1967. 1967. v+192 p. † ● Item 1035  
L.C. card 67-62808 Y 4.B 22/3: Sm 1/18

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

*Commerce Committee, Senate*  
Washington, DC 20510

[Committee hearings] serial, 90th Congress. † ● Item 1041

Y 4.C 73/2: 90-(nos.)

- 17645 26. Recovery of reasonable attorney's fees, hearings before Subcommittee on Surface Transportation, 90th Congress, 1st session, on S. 858, July 17-Aug. 25, 1967. 1967. iv+151 p.  
L.C. card 67-62790
- 17646 27. Track and field disputes, hearings, 90th Congress, 1st session, on current status of controversy between Amateur Athletic Union, National Collegiate Athletic Association, and other amateur athletic associations, and their affiliates, Aug. 17 and 18, 1967. 1967. iii+104 p.  
L.C. card 67-62793
- 17647 29. Safety standards for certain motor vehicles, hearing, 90th Congress, 1st session, on S. 2029, Aug. 16, 1967. 1967. iii+49 p.  
L.C. card 67-62792
- 17648 31. Standardization of containers, hearings before Subcommittee on Merchant Marine and Fisheries, 90th Congress, 1st session, on appropriate role of Government with respect to standard sizes of containers suggested by voluntary industry associations, July 13-17, 1967. 1967. iv+348 p. il.  
L.C. card 67-62853
- 17649 32. National potato labeling act, hearing, 90th Congress, 1st session, on S. 562, Aug. 8, 1967. 1967. iii+46 p.  
L.C. card 67-62898

*Foreign Relations Committee, Senate*  
Washington, DC 20510

- 17650 Asian Development Bank special funds, hearing, 90th Congress, 1st session, on S. 2479, Oct. 3, 1967. 1967. iii+57 p. † ● Item 1039  
L.C. card 67-62798 Y 4.F 76/2: As 4/6
- 17651 Tax conventions with Brazil, Canada, and Trinidad and Tobago, hearing, 90th Congress, 1st session, on Executive J, 90th Congress, 1st session, Executive B, 90th Congress, 1st session, Executive F, 90th Congress, 1st session, Oct. 5, 1967. 1967. iii+118 p. † ● Item 1039  
L.C. card 67-62810 Y 4.F 76/2: T 19/7
- 17652 U.S. commitments to foreign powers, hearings, 90th Congress, 1st session, on S. Res. 151, Aug. 16-Sept. 19, 1967. 1967. iv+321+vi p. \* Paper, \$1.00. ● Item 1039  
L.C. card 67-62580 Y 4.F 76/2: F 76/23
- 17653 USIA Foreign Service personnel system, hearing before Ad Hoc Subcommittee on Foreign Service Information Officer Corps, 90th Congress, 1st session, on S. 633 and S. 2002, Sept. 28, 1967. 1967. iv+94 p. † ● Item 1039  
L.C. card 67-62811 Y 4.F 76/2: Un 351/2

*Government Operations Committee, Senate*  
Washington, DC 20510

- 17654 Research in service of man: Biomedical knowledge, development, and use, conference sponsored by Subcommittee on Government Research (pursuant to S. Res. 218, 89th Cong.) and Frontiers of Science Foundation of Oklahoma, held at Oklahoma City, Okla., Oct. 24-27, 1966 [proceedings, with bibliography]. 1967. ix+246 p. il. (Committee print, 90th Congress, 1st session.) † Y 4.G 74/6: B 52/2
- 17655 State utility commissions, summary and tabulation of information submitted by commissions, prepared by Subcommittee on Intergovernmental Relations (pursuant to S. Res. 55, 90th Cong.); Sept. 11, 1967. 1967. vi+73 p. 6 tab. (Committee print, 90th Congress, 1st session.) † L.C. card 67-62862 Y 4.G 74/6: Ut 3

*Interior and Insular Affairs Committee, Senate*  
Washington, DC 20510

- 17656 Oahe unit, Missouri River Basin project, hearings before Subcommittee on Water and Power Resources, 90th Congress, 1st session, on S. 6, May 22 and Sept. 13, 1967. 1967. ix+231 p. [Hearings held in Redfield, S. Dak. and Washington, D.C.] † ● Item 1040  
L.C. card 67-62584 Y 4.In 8/13: Oa 3

# GOVERNMENT PUBLICATIONS

- 17657 Scientific programs, hearings, 90th Congress, 1st session, on scientific programs in Department of Interior, May 18, 1967. 1967. iii+147 p. il.  
 † ● Item 1040  
 L.C. card 67-62807 Y 4.In 8/13: Sci 2

## *Judiciary Committee, Senate* Washington, DC 20510

- 17658 Civil rights act of 1967, hearings before Subcommittee on Constitutional Rights, on S. 1026, S. 1318, S. 1359, S. 1362, S. 1462, H.R. 2516 and H.R. 10805, Aug. 1-Sept. 27, 1967. 1967. v+519 p. il. [Includes copyright material.] † ● Item 1042  
 L.C. card 67-62799 Y 4.J 89/2: C 49/13/967
- 17659 Competitive aspects of oil shale development, hearings before Subcommittee on Antitrust and Monopoly, 90th Congress, 1st session, pursuant to S. Res. 26.  
 L.C. card 67-62855 Y 4.J 89/2: Oi 5/5/pt.1  
 pt. 1. Apr. 18-May 5, 1967. 1967. v+1-636 p. il. 4 maps. † ● Item 1042
- 17660 Copyright law revision, hearings before Subcommittee on Patents, Trademarks, and Copyrights, 90th Congress, 1st session, pursuant to S. Res. 37 on S. 597.  
 L.C. card 67-62380 Y 4.J 89/2: C 79/4/967/pt.3  
 pt. 3. Apr. 6-12, 1967. 1967. iii+665-1042 p. il. † ● Item 1042
- 17661 Medical restraint of trade act, hearings before Subcommittee on Antitrust and Monopoly, 90th Congress, 1st session, pursuant to S. Res. 26 on S. 260.  
 L.C. card 67-62819 Y 4.J 89/2: M 46/4/pt.1  
 pt. 1. Jan. 24-Feb. 23, 1967. 1967. vii+1-580 p. il. \* Paper, \$1.75. ● Item 1042
- 17662 Right of privacy act of 1967, hearings before Subcommittee on Administrative Practice and Procedure, 90th Congress, 1st session, pursuant to S. Res. 25 on S. 928.  
 L.C. card 67-61600 Y 4.J 89/2: P 93/16/pt.2  
 pt. 2. Apr. 4-May 19, 1967. 1967. v+111-753 p. il. † ● Item 1042

## *Labor and Public Welfare Committee, Senate* Washington, DC 20510

- 17663 Arts and humanities amendments of 1967, hearings before Special Subcommittee on Arts and Humanities, 90th Congress, 1st session, on S. 2061.  
 L.C. card 67-62822 Y 4.L11/2: Ar7/5/pt.2  
 pt. 2. Aug. 15 and 16, 1967. 1967. iv+285-462 p. il. † ● Item 1043
- 17664 Education legislation, 1967, hearings before Subcommittee on Education, 90th Congress, 1st session, on S. 1125 and H.R. 7819 and related bills.  
 † ● Item 1043  
 L.C. card 67-61759 Y 4.L 11/2: Ed 8/22/967/pt.nos.)  
 pt. 3. July 24-27, 1967. 1967. vi+909-1306 p. il.  
 pt. 4. Aug. 7 and 9, 1967. 1967. vi+1307-1595 p. il.  
 pt. 6. Aug. 14-15, 1967. 1967. vi+1865-2283 p. il. 1 pl.  
 pt. 7. Aug. 16 and Sept. 18, 1967. 1967. v+2285-2486 p. il.  
 pt. 8. Appendix A. 1967. iv+2487-3037 p. il.
- 17665 Examination of war on poverty, hearing before Subcommittee on Employment, Manpower, and Poverty, 90th Congress, 1st session. † ● Item 1043  
 L.C. card 67-61640 Y 4.L11/2: P 86/4/pt. (nos.)  
 pt. 12. Los Angeles, Calif., May 12, 1967. 1967. v+3743-4005 p. il.  
 pt. 13. May 17-18, 1967. 1967. vi+4007-4322 p. [Hearings held in Johnstown, Pa., and Chicago, Ill.]  
 pt. 14. Sparta, Wls., May 26, 1967 and miscellaneous appendix. 1967. vi+4323-4482 p.
- 17666 Mental retardation amendments of 1967, hearing before Subcommittee on Health, 90th Congress, 1st session, on S. 1099 and H.R. 6430, S. 389, Oct. 11, 1967. 1967. iv+87 p. † ● Item 1043  
 L.C. card 67-62814 Y 4.L 11/2: M 52/6

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17667 Nomination, hearing, 90th Congress, 1st session, on Clifford L. Alexander, jr., New York, to be member of Equal Employment Opportunity Commission for term expiring July 1, 1972; July 27, 1967. 1967. ii+3 p. †  
● Item 1043  
L.C. card 67-62852 Y 4.L 11/2: N 72/5/967-6
- 17668 Notes and working papers concerning administration of programs authorized under title 3 of National defense education act [compiled by Officer of Education], prepared for Subcommittee on Education; June 1967. 1967. ix+168 p. il. (Committee print, 90th Congress, 1st session.) †  
L.C. card 67-62864 Y 4.L 11/2: N 21d/4
- 17669 Older Americans community service program, hearings before Special Subcommittee on Aging, 90th Congress, 1st session, on S. 276, Sept. 18 and 19, 1967. 1967. viii+318 p. \* Paper, 75c. ● Item 1043  
L.C. card 67-62789 Y 4.L 11/2: 01 1/3
- 17670 Partnership for health amendments of 1967, hearings before Subcommittee on Health, 90th Congress, 1st session, on S. 1131 and H.R. 6418, S. 894, Sept. 25 and 26, 1967. 1967. vi+225 p. il. † ● Item 1043  
L.C. card 67-62615 Y 4.L 11/2: H 34/14

## Post Office and Civil Service Committee, Senate Washington, DC 20510

- 17671 Federal pay legislation, hearings, 90th Congress, 1st session, on S. 1489 and H.R. 7977, Oct. 2-31, 1967. 1967. v+392 p. il. † ● Item 1044  
L.C. card 67-62849 Y 4.P 84/11: P 29/6/967
- 17672 Postal rates, hearings, 90th Congress, 1st session, on H.R. 7977, Oct. 16-30, 1967. 1967. vi+679 p. il. † ● Item 1044  
L.C. card 67-62850 Y 4.P 84/11: P 84/8/967

## Public Works Committee, Senate Washington, DC 20510

- 17673 Alaska Highway, hearing before Subcommittee on Roads, 90th Congress, 1st session, on S. 2021, Sept. 14, 1967. 1967. iv+57 p. map. † ● Item 1045  
L.C. card 67-62795 Y 4.P 96/10: A1 1/6
- 17674 Applying Davis-Bacon act provisions to Government-leased buildings, hearing before Subcommittee on Public Buildings and Grounds, 90th Congress, 1st session, on S. 930, Oct. 5, 1967. 1967. iii+34 p. † ● Item 1045  
L.C. card 67-62785 Y 4.P 96/10: B 86/3
- 17675 Disastrous Fairbanks, Alaska, flood of Aug. 1967, report by Senator Ernest Gruening on special on-site investigation made on Aug. 24 and 25, 1967; Sept. 1967. 1967. ix+72 p. il. 3 maps. (Committee print, 90th Congress, 1st session.) †  
L.C. card 67-62878 Y 4.P 96/10: F 15
- 17676 St. Lawrence Seaway, hearings before Subcommittee on Flood Control, Rivers and Harbors, 90th Congress, 1st session, on S. 1455 and S. 2131, Aug. 29 and 30, 1967. 1967. iv+112 p. il. † ● Item 1045  
L.C. card 67-62809 Y 4.P 96/10: Sa 21

## Small Business, Select Committee on, Senate Washington, DC 20510

- 17677 Competitive problems in drug industry, hearings before Subcommittee on Monopoly, 90th Congress, 1st session, on present status of competition in pharmaceutical industry.  
L.C. card 67-62381 Y 4.Sm 1/2: D 84/pt.2  
pt. 2. June 27-Aug. 10, 1967. 1967. iii+443-831 p. il. \* Paper, \$1.00. ● Item 1049
- 17678 Regional export expansion, hearings, 90th Congress, 1st session, on potentials and problems of developing small business regional export industries and institutions over next decade.  
L.C. card 67-62806 Y 4.Sm 1/2: Ex 7/2/pt.1  
pt. 1. Pacific Northwest, May 19 and 20, 1967. 1967. v+1-456 p. il. 2 pl. [Hearings held in Portland, Oreg.] † ● Item 1049

4For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
● Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

- 17679 Status and future of small business, hearings, 90th Congress, 1st session, on status and future of small business in American economy.  
L.C. card 67-62685 Y 4.Sm1.2: St2/pt.2  
pt. 2. Mar. 15-Apr. 6, 1967. 1967. v+409-849 p. ll. † ● Item 1049

## CONSUMER AND MARKETING SERVICE, Agriculture Dept. Washington, DC 20250

- 17680 Institutional meat purchase specifications for fresh pork, series 400, approved by USDA. Slightly revised Sept. 1967. [1967.] 9 p. ll. 4° (Livestock Division.) \* Paper, 15c. ● Item 24-N A 88.17/4: P 82/967
- 17681 United States standards for grades of canned pimientos, effective Oct. 23, 1967. 3d issue. [1967.] [2]+9 p. 4° [Published in Federal register, Sept. 22, 1967 (32 F.R. 13373). Supersedes standards which have been in effect since Aug. 16, 1955.] † A 88.6/2: P 649/967

## COPYRIGHT OFFICE, Library of Congress Washington, DC 20540

- 17682 Catalog of copyright entries, 3d series, v. 19.  
pts. 7-11A. Works of art, reproductions of works of art, scientific and technical drawings, photographic works, prints and pictorial illustrations, no. 2: July-Dec. 1965. 1967. ix+165-328 p. 4° \* Paper, \$1.00.  
● Item 798  
L.C. card 6-35347 LC 3.6/6: v.19/pt.7-11A/no.2
- Catalog of copyright entries, 3d series, v. 20. \* Paper, \$50.00 a yr. (including semiannual issues for pts 1-13); \$12.50 additional for foreign mailing.  
LC 3.6/5: v.20/pt. (nos.)/no. (nos.)
- 17683 pts. 3-4. Drama and works prepared for oral delivery, no. 2; July-Dec. 1966. 1967. ix+97-178 p. 4° ● Item 794  
L.C. card 6-35347
- NOTE.—Parts 3-4 also sold separately on subscription. \* Paper, \$5.00, \$1.25 additional for foreign mailing; single copy \$2.50.
- 17684 pt. 11B. Commercial prints and labels, no. 2; July-Dec. 1966. 1967. viii+63-115 p. 4° ● Item 799  
L.C. card 6-35347
- NOTE.—Part 11B also sold separately on subscription. \* Paper, \$5.00 a yr., \$1.25 additional for foreign mailing; single copy \$2.50.
- 17685 pts. 12-13. Motion pictures and filmstrips, no. 2; July-Dec. 1966. 1967. ix+59-111 p. 4° ● Item 800  
L.C. card 6-35347
- NOTE.—Parts 12-13 also sold separately on subscription. \* Paper, \$5.00 a yr., \$1.25 additional for foreign mailing; single copy, \$2.50.

## COURT OF CLAIMS Washington, DC 20006

- 17686 Cases decided in Court of Claims, Jan. 1-Feb. 28, 1967, with report of decisions of Supreme Court in Court of Claims cases, v. 178; reported by Margaret Hunter Pierce, reporter. 1967. xxiii+957 p. ll. \* Cloth, \$4.00. ● Item 730  
L.C. card 11-11998 Ju 3.9: 178

## DEFENSE DEPARTMENT Washington, DC 20301

### Armed Forces Institute study guide.

- 17687 E 291.1. Study guide for physics 2, high school course; prepared by Gerald E. Buck. 1966 [published 1967]. 149 p. ll. (To be used with USAFI course E 291.) † ● Item 305 D 1.10: E 291.1

### Cataloging handbook H (series). (Defense Supply Agency, Defense Logistics Services Center.) [Issued with perforations.] ● Item 314-A

- 17688 4-1. Federal supply code for manufacturers, United States and Canada: Name to code; prepared by Directorate of Cataloging. Oct. 1967. viii+ [744] p. 4° ([Army Dept. supply bulletin SB 708-41.]) [Supersedes Oct. 1966 edition and supplements thereto, and SB 708-41, Oct. 1966, including C9, Sept. 1967 supplements.] \* Paper, \$13.00 (including basic handbook and cumulative monthly supplements); \$3.25 additional for foreign mailing.  
D 7.6/2: 4-1/8

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# DECEMBER 1967

## Cataloging manual M (series).

- 17689 1-4. Federal manual for supply cataloging: chap. 4, Operating procedures. July 1967. cover title, iv+[128] p. 4° (AR 708-14; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.). [Issued in looseleaf form. Supersedes AR 708-14, Oct. 1965.] \* Paper, \$1.00.  
● Item 314-A D 7.6/3: 1-4/5

## Defense Supply Agency handbooks DSAH (series). † D 7.6/7:(nos.)

- 17690 4510.2. Terminal facilities guide, Navy, Marine Corps, and Coast Guard; Oct. 1, 1962. [1967.] [614] p. 4° ([Army Dept.] AR 55-358; [Marine Corps] MCO P4600.9; [Coast Guard] CG-376.) [Reprint including current pages from changes. Issued with perforations. Supersedes MTMB 4/OPNAVINST 4600.9/NAVMC 1185, June 18, 1958, including Changes 1-6, Apr. 17, 1959-July 20, 1961, and MTMB 6/OPNAVNOTE 4600/NAVMC 2527, Oct. 7, 1959, including Changes 1 and 2, July 14, 1960 and Jan. 3, 1961.] ● Item 314-A
- 17691 5025.4 Graphic presentation [with bibliography and references]. Oct. 1967. cover title, iv+49 p. il. 4° ● Item 314-A

## Defense Supply Agency manual DSAM (series). † ● Item 314-A

D 7.6/8:(nos.)

- 17692 4145.7. Preparation of freight for air shipment [with list of references]. Aug. 1967. cover title, [217] p. il. 4° (Army Dept. technical manual TM 38-236; Navy Dept. publication NAVAIR 15-01-3; Air Force Dept. pamphlet AFP 71-8; Marine Corps order MCO P4030.30.) [Issued in looseleaf form.]
- 17693 7000.1. Accounting and finance manual, Change 15. Sept. 28, 1967. [181] p. 4° [Issued in looseleaf form.]
- 17694 Federal item identification guide: Conduit, electrical. July 14, 1967. cover title, ix+[51] p. il. 4° (FIIG A027; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Text on p. 2 of cover. Issued with perforations.] \* Paper, 45c. ● Item 314-A

D 7.6/4: C 75/2

- 17695 — Insulators, electrical. June 2, 1967. cover title, xix+[170] p. il. 4° (FIIG A007; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] \* Paper, \$1.25.  
● Item 314-A D 7.6/4: In 7/2

- 17696 — Keys and pins. July 7, 1967. cover title, [144] p. il. 4° (FIIG A212; Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] \* Paper, \$1.00. ● Item 314-A  
D 7.6/4: K 52

- 17697 — Knobs, dials and pointers. June 9, 1967. cover title, xiii+[138] p. il. 4° (FIIG A041; Defense Supply Agency, Defense Logistic Services Center, Battle Creek, Mich.) [Issued in looseleaf form.] \* Paper, \$1.00. ● Item 314-A  
D 7.6/4: K 75

- 17698 How to avoid delays in payment. Sept. 1967. cover title, 32 p. il. oblong 24° ([Defense Supply Agency.]) † ● Item 314-A D 7.6/4: P 29

- 17699 Materials handling standard time data, Change 1. Sept. 1, 1967. [27] p. 4° (DoD 5010.15.1-M; Defense Supply Agency.) [Issued with perforations.] \* Paper, 20c. ● Item 314-A D 7.6/4: M 41/ch.1

## Military standard. [Issued in looseleaf form.]

- 17700 MIL-STD-411C. Aircrew station signals. Aug. 21, 1967. iv+12+[1] p. 4° (FSC 1500.) [Supersedes MIL-STD 411B, Feb. 15, 1965.] †  
● Item 314-J D 7.10: 411C

## Plastics Technical Evaluation Center, Picatinny Arsenal, Dover, N.J.: PLASTEC note.

- 17701 17. Guide to test methods for plastics and related materials; by Norman E. Beach. Aug. 1967. vi+73+[3] p. 4° [Issued with perforations.]  
Φ Paper, \$3.00. D 4.11/2: 17

## — PLASTEC report.

- 17702 31. Subject index, bibliography, and code description of technical conference papers on plastics, Mar. 10, 1966-May 18, 1967; by Joan B. Titus and Arnold E. Molzon. July 1967. vii+146+[3] p. 4° [Issued with perforations.] Φ Paper, \$3.00.  
L.C. card 62-61556 D 4.11: 31

ΦFor Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

Self-study statistical sampling course. [1967.] (Defense Contract Audit Agency.) [Issued with perforations.] ‡ ● Item 306

D 1.2: St 2/3/unit(nos.)

17703 Unit 1: [Lesson 1-7]. cover title, [81] p. 4°

17704 Unit 3: [Lesson 11-14]. cover title, [47] p. 4°

Shock and vibration monograph series. (Shock and Vibration Information Center.)

17705 1. Random noise and vibration in space vehicles [with bibliography; by] Richard H. Lyon, Bolt Beranek and Newman Inc. 1967. v+68 p. il. ([Contract N00014-66-C0271.]) \* Cloth, \$1.50. ● Item 310-A  
L.C. card 67-62274 D 1.42:1

17706 Teaching in Armed Forces, Protestant religious education program [with annotated bibliography for use in leadership training program]. Revised [edition]. [1967.] cover title, 73 p. ‡ ● Item 306 D 1.2: T 22

17707 USAFI bulletin 3; Oct. 1967. [1967.] cover title, [47] p. 4° (United States Armed Forces Institute.) [Issued with perforations.] ‡  
D 1.10/3: 967/no.3

## ECONOMIC DEVELOPMENT ADMINISTRATION, Commerce Dept. Washington, DC 20230

17708 EDA, program to help build communities with jobs, address by Deputy Assistant Secretary of Commerce for Economic Development Operations Lambert S. O'Malley, prepared for delivery before Pittsburgh Commerce Institute, Pittsburgh, Pa., Nov. 17, 1967. 1967. 16 p. 4° ([US/COMM/DC/28188.]) ‡  
C 46.11: Om 1

## ECONOMIC OPPORTUNITY OFFICE, Executive Office of the President, Washington, DC 20506

17709 Beautiful junk [with suggested bibliography; by Dianne Warner and Jeanne Quill]. [1967.] cover title, 12 p. il. 4° ([H-38]; Project Head Start.) ‡ ● Item 857-H PrEx 10.2: J 96

## ECONOMIC RESEARCH SERVICE, Agriculture Dept. Washington, DC 20250

Agricultural economic reports. ● Item 42-C A 93.28:(nos.)

17710 122. Aspirations and expectations of rural poor, guide to research [with bibliography; by Walter L. Slocum]. [Oct. 1967.] ii+37 p. 4° \* Paper, 25c.  
L.C. card Agr 67-379

17711 123. Rural industrialization in Ozarks, case study of new shirt plant at Gassville, Ark.; [by Max F. Jordan]. [Nov. 1967.] iv+23 p. il. 4° [Prepared in cooperation with Arkansas Agricultural Experiment Station, University of Arkansas.] \* Paper, 25c.  
L.C. card Agr 67-384

ERS (series).

17712 358. Differential assessment of farmland near cities, experience in Maryland through 1965; [by Peter W. House]. [Oct. 1967.] iv+40 p. il. 4° ‡  
L.C. card Agr 67-370 A 93.21: 358

ERS-foreign (series).

17713 190. Brazil's position in world agricultural trade [with bibliography; prepared by Howard A. Osborn, and others]. [Oct. 1967.] cover title, iv+133 p. 4° [Map on p. 2 of cover, and p. 133, last page of text, on p. 3 of cover.] ‡ ● Item 76-G  
L.C. card Agr 67-397 A 93.21/2: 190

Foreign agriculture economic report.

17714 36. Agricultural policies in Western Hemisphere; [by Gae A. Bennett and others]. [Oct. 1967.] cover title, ii+55 p. 4° ([Western Hemisphere Branch, Foreign Regional Analysis Division.]) [Page 55, last page of text, is on inside of back cover.] \* Paper, 40c. ● Item 42-B  
L.C. card Agr 67-392 A 93.27: 36

\*For Sale by Superintendent of Documents

‡Distribution Made by Issuing Office

‡Official Use. Not Available

EDUCATION OFFICE, Health, Education, and Welfare Dept.  
Washington, DC 20202

- 17715 Academic & financial status of graduate students, spring 1965; [by] J. Scott Hunter. [1967.] vii+57 p. 4° ([OE-54042; National Center for Educational Statistics, Division of Statistical Analysis.] †  
● Item 460-A-54  
L.C. card HEW 67-160 FS 5.254:54042
- 17716 Changing pecking order, address by Harold Howe II, Commissioner of Education, Department of Health, Education, and Welfare, before College Entrance Examination Board, Chicago, Ill., Oct. 24, 1967. [1967.] 14 leaves, 4° † FS 5.8:H 83/41
- 17717 In educating for 21st century manpower needs, tomorrow is now; [by] Howard A. Matthews. [1967.] [4] p. il. large 4° (OE 87024.) [Reprinted from American education, June 1967.] \* Paper, 10c. ● Item 460-A-87 FS 5.287:87024
- 17718 Manual of information and instructions for use by institutions of higher education in preparation and submission of proposals, Higher education facilities act of 1963, Public law 88-204, as amended, title 2, graduate academic facilities program. July 1967. [2]+20 p. 4° † ● Item 461-A (Rev. 1965). FS 5.6/2:In 7
- 17719 New directions in vocational education, case studies in change; [prepared by] Bernard Asbell. [1967.] [7]+55 p. il. (OE-80047; Bureau of Research.) [Prepared under contract OE C-1-6-0004-32-0432.] \* Paper, 30c. ● Item 400-A-80  
L.C. card HEW 67-159 FS 5.280:80047
- 17720 Office of Education research reports 1956-65, resumes; [prepared by] Educational Research Information Center (ERIC). [June 1967.] cover title, [6]+326+[5] p. oblong 12° ([OE-12029; Bureau of Research, Division of Information, Technology, and Dissemination.]) \* Paper, \$1.75. ● Item 460-A-12  
L.C. card HEW 67-155 FS 5.212:12029
- 17721 One million dropouts, Sputnik of 1967, in every community there are people willing to help but schools must take initiative; by Hubert H. Humphrey. [1967.] [2] p. il. large 4° (OE 20105.) [Reprinted from American education, Sept. 1967.] \* Paper, 5c. ● Item 460-A-20  
FS 5.220:20105
- 17722 Organizing food training program [with list of related vocational education publications; prepared by John J. McAllister]. [1967.] viii+28 p. 4° ([OE-84033; Manpower Development and Training program.]) [Text on p. 2 of cover. Revision of booklet Training for quantity food preparation, appearing in 1956 through efforts of Council on Hotel, Restaurant, and Institution Education, National Restaurant Association and American Hotel-Motel Association.] \* Paper, 30c. ● Item 460-A-84  
L.C. card HEW 67-156 FS 5.284:84033
- 17723 Pacesetters in innovation [v. 1], fiscal year 1966, title 3, Supplementary centers and services program, Elementary and secondary education act of 1965. [1967.] [440] p. oblong 12° (OE-20103; PACE, projects to advance creativity in education; ERIC, Educational Resources Information Center.) [Developed in cooperation with Bureau of Research through services of Educational Resources Information Center. Text on p. 2 of cover. Back title is: Pacesetters in innovation, July 1967, v. 1. Supersedes Pacesetters in innovation, v. 1, issues 1-4.] \* Paper, \$2.50. ● Item 460-A-20  
L.C. card HEW 66-105 FS 5.220:20103
- 17724 Public school finance program, 1966-67 [State compilations; by] S. Kern Alexander [and Albert R. Munse]. [1967.] [345] p. oblong 12° (Bureau of Elementary and Secondary Education, Division of State Agency Cooperation.) [Prepared in cooperation with State departments of Education.] †  
L.C. card HEW 67-161 FS 5.73/2:966-67

# GOVERNMENT PUBLICATIONS

- 17725 Status of compliance, public school districts, 17 Southern and border States, report no. 7. Sept. 1967. cover title, ii+88 p. 4° (Office for Civil Rights.) † ● Item 467-C FS 5.80:7
- 17726 Teens sound off, faculty listens to students' serious evaluation of Lake Oswego high school; by John Guernsey. [1967.] [4] p. il. large 4° (OE 20107.) [Reprinted from American education, Sept. 1967.] \* Paper, 15c. ● Item 460-A-20 FS 5.220:20107

## EMPLOYMENT SECURITY BUREAU, Labor Dept. Washington, DC 20210

### BES (series).

- 17727 U-141. Comparison of State unemployment insurance laws, Revision 3, series 1. Aug. 31, 1967. [143.] p. [Issued in looseleaf form.] \* Paper, 60c. ● Item 752-B L 7.61: U-141/965/rev.series 1/3
- 17728 Housing handbook, guide to improved farm worker housing [with lists of publications; prepared by] Office of Farm Labor Service. [1967.] [6]+62 p. il. 4° [Space has been provided on inside back cover for local address most frequently used.] † ● Item 756-B L 7.25/3: H 81

### Industry manpower surveys.

- 17729 113. Blast furnaces, steelworks, rolling mills; [prepared by Alan L. Moss]. Sept. 1967. cover title, iv+16 p. il. 4° ([United States Employment Service.]) † L 7.49:113

## ENGINEERS CORPS (Army), Defense Dept.

NOTE.—Orders or requests for publications of the Engineers Corps, other than those sold by the Superintendent of Documents or by offices of the Engineers Corps in other cities, should be addressed to Chief of Engineers, U.S. Army, Washington, DC 20310, Attention Publications Office.

- 17730 Bristol Harbor, R.I., letter from Chief of engineers, Army, submitting report on review of reports; Oct. 11, 1967. [1967.] xi+52 p. 1 pl. 4° [Also issued as H. Doc. 174, 90th Cong., 1st sess.] † ● Item 334-A D 103.22: B 77
- 17731 Lake Chicot, Ark., letter from chief of engineers, Army, submitting report on review of report; Sept. 20, 1967. 1967. xxx+149 p. il. 3 pl. 4° [Also issued as H. doc. 168, 90th Cong., 1st sess.] † ● Item 334-A D 103.22: L 14c
- 17732 Little Blue River, vicinity of Kansas City, Mo., letter from chief of engineers, Army, submitting report on review of report; Sept. 21, 1967. [1967.] xxii+143 p. il. 2 pl. 4° [Also issued as H. doc. 169, 90th Cong., 1st sess.] † ● Item 334-A D 103.22: L 72b/2
- 17733 Norwalk River basin, Conn. and N.Y., letter from chief of engineers, Army, submitting report on interim report; Oct. 16, 1967. 1967. xvii+50 p. 2 pl. 4° [Also issued as S. doc. 51, 90th Cong., 1st sess.] † ● Item 334-A D 103.22: N 83

### Ohio River Division Laboratories: Technical report.

- 17734 4-67. Development study for helipad standard marking pattern [final report]; by T. H. Morrow, jr. Sept. 1967. [3]+1x+38+[54] p. il. 4° [Prepared in coordination with Office, Chief of Engineers and Federal Aviation Administration. Includes Technical report 4-55, Development of helipad marking configuration, interim report, by R. E. McKenzie.] † D 103.38: 4-67

### Regulations ER (series). [Issued in looseleaf form.]

- 17735 500-1-1. Emergency employment of Army resources: Natural disaster activities [with list of references and bibliography]. Sept. 1 [1967]. cover title. [1]+v+65+[76] p. il. 4° [Rescinds EM 500-1-1, Aug. 1, 1961.] † ● Item 341 D 103.6/4: 500-1-1

### Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, MS. (price upon application).

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

## —Miscellaneous paper.

- 17736 6-911. Influence of reinforcing details on yield line pattern and ultimate load-carrying capacity of reinforced concrete slabs [with bibliographies]; by H. G. Geymeyer, J. E. McDonald. Army-MRC Vicksburg, Miss., Aug. 1967. xlii+28+[72] p. il. 4° [Sponsored by Assistant Secretary of Army (R&D), Department of Army; project 4A013001A91D.] †  
D 103.24/4: 6-911

## —Technical report.

- 17737 2-795. Arkansas River navigation entrance, hydraulic model investigation; by J. J. Franco, L. J. Shows, J. E. Foster. Army-MRC Vicksburg, Miss., Sept. 1967. x+24+[28] p. il. 4° [Sponsored by U.S. Army Engineer District, Vicksburg and Little Rock.] †  
D 103.24/2: 2-795

## ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, Commerce Dept., Washington, DC 20235

- 17738 Greatest storm on earth, hurricane [with hurricane bibliography]. [1967.] 40 p. il. oblong 8° ([ESSA/PI 670005.]) \* Paper, 45c. ● Item 208-B-1  
L.C. card 67-62960 C 52.2: H94
- 17739 Winter storms. [1967.] [8] p. il. ([ESSA/PI 670020.]) [Includes list of winter storm safety rules.] \* Paper, 15c. ● Item 208-B-1 C 52.2: St7

## FEDERAL AVIATION ADMINISTRATION, Transportation Dept. Washington, DC 20553

- 17740 Air traffic patterns for IFR and VFR aviation, calendar year 1966; [compiled by Publication and Service Branch, Information and Statistics Division, Office of Management Services]. [1967.] cover title, v+160 p. 4° † ● Item 431-C-1  
L.C. card 68-60136 TD 4.19/2: 966
- 17741 America's airport beautification awards program. [1967.] [12] p. il. oblong 12° † ● Item 431-C-8  
TD 4.2: Ai7
- 17742 Category 2 operations, general aviation airplanes; [effective Aug. 7, 1967]. [1967.] cover title, [83] p. (Advisory circular AC 91-16.) [Issued with perforations.] † ● Item 431-C-4  
TD 4.8: Ai7/2
- Federal aviation regulations. [Issued in looseleaf form.] ● Item 431-C-13
- 17743 pt. 13. Enforcement procedures. [1967.] cover title, [19] p. 4° [Consolidated reprint incorporates Changes 1-6.] \* Paper, 25c. TD 4.6: 13
- 17744 pt. 37. Technical standard order authorizations, Change 1; [effective] Feb. 10 [and] Mar. 24, 1967. [1967.] [56] p. il. 4° [Incorporates amendments 37-9 through 37-12.] †  
FAA 1.6/8: 37/2/ch.1
- 17745 pt. 39, v. 2. See below, Summary of airworthiness directives for large aircraft.
- 17746 pt. 47. Aircraft registration, Change 4, [effective] Sept. 29, 1967. [1967.] [14] p. 4° [Incorporates Amendments 47-4 and 47-5.] † TD 4.6: 47/ch.4
- 17747 Maintenance inspection notes for Douglas DC-6/7 series aircraft; [effective] Aug. 24, 1967. [1967.] cover title, [69] p. il. 4° (Advisory circular AC 20-52.) [Issued in looseleaf form.] † ● Item 431-C-4  
TD 4.8: D74
- 17748 Summary of airworthiness directives for large aircraft. [Jan. 1, 1967.] cover title, [533] p. il. 4° (Federal aviation regulations, pt. 39, v. 2.) [Incorporates all current airworthiness directives through Dec. 1966. Issued in looseleaf form.] \* Paper, \$6.00 (including basic manual and quarterly supplements for an indefinite period); \$1.25 additional for foreign mailing. ● Item 431-A-15  
TD 4.10/3: 967
- 17749 United States civil aircraft register, July 1, 1967. cover title, vi+[54]+1599 p. 4° (AC 20-6H; Aeronautical Center, Data Services Division.) [Semiannual.] \* Paper, \$7.25. ● Item 431-F-5  
L.C. card 63-65041 TD 4.18/2: 967-2

## FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

- 17750 Federal Communications Commission reports, decisions and reports, v. 21, July 1-Dec. 31, 1956. 1967. xvi+1016 p. \* Cloth, \$3.50. ● Item 284  
L.C. card 36-26605 CC 1.12: 21

✦For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

## GOVERNMENT PUBLICATIONS

- 17751 Report of telephone and telegraph committees of Federal Communications Commission in domestic telegraph investigation, docket no. 14650, Apr. 29, 1966. [1967.] vii+335 p. il. † ● Item 285 CC 1.2: T236/14

### FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY Washington, DC 20506

ICO pamphlets. (Interagency Committee on Oceanography.)  
Y 3.F31/16: 9/ (nos.)

- 17752 30. University curricula in marine sciences, academic year 1967-68 [with bibliography]. Aug. 1967. [2]+xi+157 p. 4° [Prepared for National Council on Marine Resources and Engineering Development.] † ● Item 1061-B
- 17753 31. Oceanographic ship operating schedules, fiscal year 1968. July 1967. [5]+59 p. map, 4° [Published for National Council on Marine Resources and Engineering Development.] † Interagency Committee on Oceanography, Biological Laboratory, Building 74, Navy Yard Annex, Washington, DC 20390  
L.C. card 63-61746

### FEDERAL CREDIT UNIONS BUREAU, Health, Education, and Welfare Dept., Washington, DC 20201

- 17754 Federal credit union program, annual report 1966. [1967.] cover title, [5]+97 p. il. 4° ([FCU-561.]) † ● Item 525  
L.C. card 51-23782 FS 3.301: 966

### FEDERAL HOME LOAN BANK BOARD Washington, DC 20552

- 17755 [Address by Robert L. Rand, member, Federal Home Loan Bank Board, at 24th annual meeting of National League of Insured Savings Associations, San Francisco, Calif., Oct. 23, 1967.] 1967. 2+15 p. 4° †  
FHL 1.23: R15/2
- 17756 Current issues and policies, remarks prepared for delivery by John E. Horne, Chairman, Federal Home Loan Bank Board, at 75th annual convention of United States Savings and Loan League, San Francisco, Calif., Nov. 13, 1967. [1967.] 2+17 p. 4° ([Office of Public Affairs.]) †  
FHL 1.23: H78/11

### FEDERAL HOUSING ADMINISTRATION, Housing and Urban Development Dept., Washington, DC 20411

- 17757 FHA regulations [Home mortgage regulations, amendment to sec. 221.60]. [1967.] [4] p. ([FHA 3000-56.]) [Includes Home regulations transmittal 56, Aug. 29, 1967. Issued in looseleaf form.] †  
HH 2.6: M 84/7/964/trans.56

### FEDERAL POWER COMMISSION Washington, DC 20426

- 17758 Cumulative index-digest to opinions, decisions and orders of Federal Power Commission, v. A., Jan. 1931-Dec. 1957. 1967. xxiii+341 p. \* Cloth \$2.00. ● Item 438  
FP 1.20: ind/v.A
- 17759 Federal power act, June 1, 1967. 1967. v+167 p. \* Paper, 45c. ● Item 437  
L.C. card 35-26948 FP 1.5: P87/967
- FPC S (series).
- 17760 183. Statistics for interstate natural gas pipeline companies, 1966, compiled from annual reports submitted by interstate natural gas pipeline companies, pursuant to requirements of Natural gas act, classes A and B companies; [prepared of Office of Accounting and Finance]. July 1967. xxiv+[113] p. il. 4° \* Paper, 75c. ● Item 440  
L.C. card 44-40870 FP 1.21: 183

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

FEDERAL RADIATION COUNCIL  
Washington, DC 20449

Report.

- 17761 S. Guidance for control of radiation hazards in uranium mining [with list of references]. Revised Sept. 1967. [1967.] iv+60 p. il. 4° (Staff report.) \* Paper, 40c. ● Item 1063-E  
L.C. card 67-62932 Y 3.F31/17: 8/8

FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS  
Washington, DC 20551

- 17762 Federal reserve par list, Oct. 1967 (locations of banks upon which checks will be received by Federal Reserve Banks and Branches for collection and credit). [1967.] [2]+39+[1] p. il. 4° [Supersedes Oct. 1966 issue and supplements thereto.] † FR 1.9: 967

FEDERAL SUPPLY SERVICE, General Services Administration  
Washington, DC 20405

- 17763 Federal specifications. ● Item 563 GS 2.8:

NOTE.—These specifications are now so completely covered by the Index of Federal specifications, standards, and handbooks with cumulative monthly supplements, that listing in the Monthly Catalog of United States Government Publications represents unnecessary and wasteful duplication of effort. For that reason they will no longer be listed.

Complete information on the Index of Federal specifications will be found in the Appendix to the February 1967 issue of the Monthly Catalog under Entry number 3409 and in the April 1967 issue under Entry number 6335.

Federal standards. Issued with perforations. ● Item 563 GS 2.8/3:(nos.)

NOTE.—Federal standards may be purchased from the General Services Administration, Specifications Activity, Printed Materials Supply Division, Building 197, Naval Weapons Plant, Washington, DC 20407. *All checks and money orders should be made payable to the Treasurer of the United States.* Single copies are available without charge at the nearest GSA regional office.

- 17764 262. Light, desk. Apr. 26, 1967. 1 p. 4° (FSC 6230.) [Fed specs. W-L-310, W-L-311, and W-L-312, issues in effect. Supersedes Fed. std. 00249 (GSA-FSS), Feb. 9, 1966, 00250 (GSA-FSS), Feb. 9, 1966, and 00251 (GSA-FSS), Feb. 9, 1966.] † Paper, 5c. ● Item 563 GS 2.8/3: 262

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION,  
Interior Dept., Washington, DC 20242

- 17765 Fish kills by pollution, 1966 7th annual report. [1967.] 16 p. il. oblong 12° ([CWA-7 1967.]) [Text on p. 3 of cover.] \* Paper, 20c. ● Item 496-C  
I 67.9: 966
- 17766 Selected summaries of water research. Oct. 1967. 6 p. 4° (Research and Development, Cincinnati Water Research Laboratory, Cincinnati, Ohio.) † I 67.12: 967/2
- 17767 Water pollution control directory. Sept. 1967. [16] p. il. oblong 24° †  
● Item 473-A-1 I 67.2: D62/967
- 17768 What you can do about water pollution. [June 1967.] [2] p. il. oblong 8° folded into 8° size. (CWA-8.) [Illustrations are colored.] \* Paper 10c.  
● Item 473-A-1 I 67.2: P76

FISH AND WILDLIFE SERVICE, Interior Dept.  
Washington, DC 20240

C.F.S. (series). (Bureau of Commercial Fisheries.) † ● Item 610-A  
I 49.8/2:(nos.)

- 17769 4288. Oregon landings, 1965, annual summary. [Oct. 1967.] 2 p. il. 4° [Prepared in cooperation with Fish Commission of Oregon, Portland, Oreg.]
- 17770 4491. Maryland landings, 1966, annual summary. [Oct. 1967.] 11 p. il. 4° [Prepared in cooperation with Maryland Department of Chesapeake Bay Affairs, Annapolis, Natural Resources Institute, Solomons, Potomac River Fisheries Commission, Colonial Beach, Va.]
- 17771 4513. North Carolina landings, 1966, annual summary. [1967.] 8 p. il. 4° [Prepared in cooperation with North Carolina Department of Conservation and Development, Division of Commercial Fisheries, Morehead City, N.C.]



# GOVERNMENT PUBLICATIONS

Circulars. (Bureau of Commercial Fisheries.) † I 49.4:(nos.)

- 17772 266. West German research vessel Walthier Herwig; by Ernest D. McRae, Jr. Sept. 1967. [1]+ii+23 p. il. 4° ● Item 609
- 17773 268. Report of Bureau of Commercial Fisheries, Biological Laboratory, Galveston, Tex., fiscal year 1966 [with list of publications]. Sept. 1967. iii+43 p. il. 4° [Contribution 226, Bureau of Commercial Fisheries, Biological Laboratory, Galveston, Tex.] ● Item 609  
L.C. card 66-62912

Fishery leaflet. (Bureau of Commercial Fisheries.)

- 17774 604. Graduate educational grants, academic year 1968-69. Sept. 1967. [2]+5 p. il. 4° ([MS.1707.]) † I 49.28:604

Refuge leaflets. †

I 49.44:(nos.)

- 17775 36. Great Meadows National Wildlife Refuge. [July 1967.] 4 p. il. 4°
- 17776 52. Kirwin National Wildlife Refuge. [Aug. 1967.] 4 p. il. 4°
- 17777 101. Birds of Cape Romain National Wildlife Refuge. [Sept. 1967.] 4 p. 4°
- 17778 118. Birds of Seney National Wildlife Refuge. [Aug. 1967.] 4 p. il. 4°
- 17779 124. Birds of Santa Ana National Wildlife Refuge. [Aug. 1967.] 4 p. 4°
- 17780 150. Birds of Florida Keys national wildlife refuges. [Aug. 1967.] 4 p. 4°
- 17781 166. Birds of Delta National Wildlife Refuges. [Aug. 1967.] 4 p. 4°
- 17782 537. Washita National Wildlife Refuge. [Aug. 1967.] [4] p. il. 4°

Research report.

- 17783 72. Bibliography on blood chemistry of fishes: by Joseph B. Hunn. [1967.] [2]+32 p. large 8° (Bureau of Sport Fisheries and Wildlife.) \* Paper, 25c.  
● Item 614  
L.C. card 67-62929 I 49.26:72

Resource publications. (Bureau of Sport Fisheries and Wildlife.)

I 49.66:(nos.)

- 17784 25. Annual report for 1965, Divisions of Fishery Services; prepared by Edward C. Kinney. June 1966. vi+54 p. il. 4° †  
L.C. card 62-64893
- 17785 45. National wildlife refuges, 1967. [1967.] cover title, 16 p. il. 4° [Map on inside back cover.] \* Paper, 25c. ● Item, 613-B  
L.C. card 66-60495

Special scientific report: Wildlife (series). (Bureau of Sport Fisheries and Wildlife.)

- 17786 107. Test of grit types in alleviating lead poisoning in mallards [with list of literature cited]; by Alfred J. Godin. June 1967. ii+9 p. 4° \* Paper, 15c. ● Item 614-C I 49.15/3:107

Technical papers of Bureau of Sport Fisheries and Wildlife.

- 17787 15. Brook trout of Great Smoky Mountains National Park [with list of literature cited]; by Robert E. Lennon. Aug. 1967. 18 p. 4° \* Paper, 20c. ● Item 615-A I 49.68:15

Wildlife leaflet. (Bureau of Sport Fisheries and Wildlife.)

- 17788 477. Big game inventory for 1966; compiled in Bird and Mammal Laboratories Division of Wildlife Research. Sept. 1967. 4 p. 4° † I 49.13:477

## FLIGHT STANDARDS SERVICE, Transportation Dept. Washington, DC 20553

- 17789 Ground instructor examination guide, basic-advanced. Revised [edition]. 1967. [1]+ii+60 p. il. 4° ([Advisory circular]; AC 143-1B.) [Includes list of recommended study materials. Accompanied by World aeronautical chart 405, 31st edition, dated Feb. 14, 1962, 22 x 30 in., chart is colored.] \* Paper, \$1.00. ● Item 431-F-3 TD 4.408:G 91

## FOOD AND DRUG ADMINISTRATION, Health, Education, and Welfare Dept., Washington, DC 20201

FDA publication.

- 17790 2. Requirements of United States food, drug, and cosmetic act. [Revised Sept. 1967. [1967.] cover title, vii+56 p. [Includes lists of related governmental and nongovernmental publications. Text on p. 2 of cover.] \* Paper, 25c.  
● Item 475-A FS 13.111:2/5
- 17791 LSD, the false illusion, pt. 2; [by Lewis P. Lasher]. [1967.] [8] p. il. 4° [Reprint from FDA papers, Sept. 1967.] \* Paper, 10c.  
FS 13.128/a: L 959/pt.2

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available



FOREIGN AGRICULTURAL SERVICE, Agriculture Dept.  
Washington, DC 20250

[Foreign Agricultural Service, miscellaneous] FAS-M (series).

- 17792 194. Greek canned deciduous fruit industry; [by Frank A. Padovano]. Oct. 1967. iv+12 p. il. 4° ([Fruit and Vegetable Division.]) †  
L.C. card Agr 67-371 A 67.26: 194

FOREST SERVICE, Agriculture Dept.  
Washington, DC 20250

Forest pest leaflets. † ● Item 82-A A 13.52: (nos.)

- 17793 2. Mountain pine beetle [with list of references]; by George R. Struble and Phillip C. Johnson. June 1955, revised July 1967. [1967.] 4 p. il.  
17794 21. White-pine weevil [with list of references]; by H. J. MacAloney. June 1958, revised Aug. 1967. [1967.] 7 p. il.  
L.C. card Agr 67-391  
17795 95. Boxelder bug [with list of references]; by Edward H. Wollerman. Revised Sept. 1967. [1967.] 6 p. il.  
L.C. card Agr 67-398  
17796 107. Florida externa Ferris, scale insect of hemlock [with list of references]; by Robert L. Talerico, Charles W. McComb, and Wallace T. Garrett. Oct. 1967. 4 p. il.  
L.C. card Agr 67-375

- 17797 Important insect outbreaks in Oregon and Washington in 1967; by R. E. Dolph and L. F. Pettinger, Oct. 9, 1967. 9 p. map, 1 tab. 4° (R-6.)  
[Map is colored.] † A 13.2: In 7/4/967

- 17798 More timber, more jobs 1967, State and private forestry, southeastern area. [1967.] cover title, 12 p. il. 4° [Text and other illustrations on p. 1, 2, and 4 of cover.] † A 13.2: T 48/38

- 17799 Recreation facilities, personal history of their development in national forests of California [with list of selected references; by] Earl E. Bachman. 1967. cover title, [4]+52 p. il. 4° (Pacific Southwest Forest and Range Experiment Station, Berkeley, Calif.) † A 13.62/2: R 24/3

- 17800 Report 1966, Northeastern Forest Experiment Station. [1967.] cover title, [1]+98 p. il. [Abstract cards inserted.] †  
L.C. card 53-61877 A 13.42/1: 966

Research note NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa.) † A 13.79: NE-(nos.)

- 17801 NE-55. Land disturbances from strip-mining in eastern Kentucky: 2, Princess Coal Reserve District; [by William T. Plass]. 1967. 8 p. il.  
17802 NE-56. Visible dormant buds as related to tree diameter and log position; [by H. Clay Smith]. 1967. 4 p. il.  
17803 NE-57. Pruning open-grown black cherry; [by T. J. Grisez]. 1967. 7 p. il.  
17804 NE-58. Treatments needed to regenerate yellow-poplar in New Jersey and Maryland [with list of literature cited; by S. Little]. 1967. 8 p.

Research paper, INT-(series). (Intermountain Forest and Range Experiment Station, Ogden, Utah.) † A 13.78: INT-(nos.)

- 17805 INT-40. Ponderosa pine bibliography through 1965; compiled by Elvera A. Axelton. 1967. [2]+150+[1] p. 4° [Illustration and map on p. 1 and 2 of cover.]  
17806 INT-41. Technique for sampling general fish habitat characteristics of streams; by Roscoe B. Herrington and Donald K. Dunham. 1967. [3]+12 p. il. 4° [Text on p. 2 of cover. Abstract cards inserted.]

Resource bulletin NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa.) † A 13.80: NE-(nos.)

- 17807 NE-6. Pulpwood production in Northeast, 1965, revised Table 2. [1967.] [3] p. oblong 24° [Supersedes original table 2.]  
17808 NE-7. Timber resources of Maryland; [by Roland H. Ferguson]. 1967. cover title, [2]+93 p. il. [Abstract cards inserted. Two illustrations are colored.]

Resource bulletin SO-(series). (Southern Forest Experiment Station.)

- 17809 SO-9. Southern pulpwood production, 1966; [by] Dwane D. Van Hooser and Joe F. Christopher. 1967. [2]+23 p. il. 4° [Prepared in cooperation with Southeastern Forest Experiment Station and Southern Pulpwood Conservation Association. Text on p. 2 of cover; p. 23 of text is p. 3 of cover.] †  
L.C. card 66-61404 A 13.80: SO-9

# GOVERNMENT PUBLICATIONS

## GENERAL ACCOUNTING OFFICE

Washington, DC 20548

- 17810 Report to Congress of United States: Actions to improve financial management system of United States Army Tank-Automotive Command, Warren, Mich., Department of Army; by Comptroller General of United States. Oct. 1967. cover title, [3] leaves+37 p. 4° † Paper, \$1.00.  
L.C. card 67-62891 GA 1.13: F 49/4
- 17811 — Need for more effective guidance to States in establishing rates of payment for nursing home care provided to welfare recipients, Social and Rehabilitation Service, Department of Health, Education, and Welfare; by Comptroller General of United States. Oct. 1967. cover title, [3] leaves+46 p. 4° † Paper, \$1.00.  
L.C. card 67-62892 GA 1.13: N 93/3
- 17812 — Observations on United States balance-of-payments position; by Comptroller General of United States. Oct. 1967. cover title, [6] leaves+149 p. 4° † Paper, \$1.00.  
L.C. card 67-62834 GA 1.13: B 18
- 17813 — Review of validity of and controls over large volume of unfilled orders for Air Force materiel, Department of Air Force; by Comptroller General of United States. Oct. 1967. cover title, [4] leaves+32 p. 4° † Paper, \$1.00.  
L.C. card 67-62893 GA 1.13: Ai 7/S5
- 17814 — Savings available through more frequent payments on college housing loans, Housing Assistance Administration, Department of Housing and Urban Development; by Comptroller General of United States. Oct. 1967. cover title, [3] leaves+13 p. 4° † Paper, \$1.00.  
L.C. card 67-62894 GA 1.13: C 68/2
- 17815 — Substantial savings available by eliminating low-cost, low-demand spare parts from defense supply system, Department of Navy and Defense Supply Agency; by Comptroller General of United States. Oct. 1967. cover title, [3] leaves+31 p. 4° † Paper, \$1.00.  
L.C. card 67-62895 GA 1.13: Sp 2/24

## GENERAL SERVICES ADMINISTRATION

Washington, DC 20405

- 17816 Federal Fire Council, minutes of annual meeting, Apr. 5, 1967, missile silo fire at Little Rock AFB, Ark., and fire protection problems for special atmospheres including oxygen [with bibliography]. [1967.] cover title, iii+37 p. il. 4° †  
L.C. card 50-33430 GS 1.14/3: 967

## GEOLOGICAL SURVEY, Interior Dept.

Washington, DC 20405

- |       |            |   |                |
|-------|------------|---|----------------|
|       | Bulletins. | ● Item 620  | I 19.3: (nos.) |
| 17817 | 1247.      | Low-temperature reaction zones and alpine ultramafic rocks of California, Oregon and Washington [with list of references cited]; by Robert G. Coleman. 1967. iv+49 p. il. * Paper, 25c.<br>L.C. card GS 67-282  |                |
| 17818 | 1248.      | Selected X-ray crystallographic data, molar volumes, and densities of minerals and related substances [with list of references]; by Richard A. Robie, Phillip M. Bethke, and Keith M. Beardsley. 1967. iv+87 p. * Paper, 35c.<br>L.C. card 67-276   |                |
| 17819 | 1250.      | Glossary of uranium and thorium-bearing minerals; by Judith W. Frondel, Michael Fleischer, and Robert S. Jones. 4th edition. 1967. iii+69 p. [List of uranium- and thorium-containing minerals, with data on composition, type of occurrence, chemical classification, and synonymy.] * Paper, 30c.                     |                |
| 17820 | 1254-B.    | Cretaceous and lower Tertiary stratigraphy in west-central Puerto Rico [with list of references]; by Peter H. Mattson. 1967. iii+35 p. il. [Prepared in cooperation with Commonwealth of Puerto Rico Economic Development Administration, Industrial Research Department. Contributions to stratigraphy.] * Paper, 20c. |                |

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17821 1260-A, B. Summary report on geology and mineral resources of: Salt Creek area, Bitter Lake National Wildlife Refuge, Chaves County, N. Mex. [with list of references cited], by George O. Bachman; Bosque del Apache National Wildlife Refuge, Socorro County, N. Mex. [with list of references cited], by George O. Bachman and Ronald B. Stotelmeyer. 1967. vii+10+iii+9 p. il. [Compilation of available geologic information. Studies related to wilderness-wildlife refuges.] \* Paper, 15c.
- 17822 Pacific Northwest water resources summary, annual summary, water year 1967. [1967.] 22 p. il. 4° [Provisional data subject to revision. Prepared in collaboration with Water Survey of Canada. Issued with perforations.] †  
L.C. card 62-4280 I 19.46: 967
- Professional papers. ● Item 624 I 19.16: (nos.)**
- 17823 422-K. Erosion and deposition produced by flood of Dec. 1964 on Coffee Creek, Trinity County, Calif. [with list of references cited]; by John H. Stewart and Valmore C. LaMarche, jr. 1967. iii+22 p. il. 2 pl. in pocket, 4° [Physiographic and hydraulic studies of rivers.] \* Paper, \$1.00.
- 17824 522. Areal geology of western Mojave Desert, Calif. [with list of references cited]; by Thomas W. Dibblee, jr. 1967. vii+153 p. il. 4 pl. in pocket, 4° [Contribution to west coast earthquake investigations. 2 plates are colored.] \* Paper, \$2.75.  
L.C. card GS 67-202
- 17825 524-I. Bedrock geology of Shin Pond and Stacyville quadrangles, Penobscot County, Maine [with list of references]; by Robert B. Neuman. 1967. iii+37+[3] p. il. 3 pl. in pocket, 4° [Description of lower Paleozoic stratigraphy and structure east of Mount Katahdin. Shorter contributions to general geology. Includes title page and table of contents to Bulletin 524. Plates are colored.] \* Paper, \$1.50.
- 17826 530. Geologic occurrence of monazite [with bibliography]; by William C. Overstreet. 1967. viii+327 p. il. 2 pl. in pocket, 4° [Review of distribution of monazite and of geologic controls affecting amount of thorium in monazite.] \* Paper, \$3.00.  
L.C. card GS 67-191
- 17827 593-D. Zoogeographic evidence for late Tertiary lateral slip on San Andreas fault, Calif. [with list of references]; by W. O. Addicott. 1967. iii+12 p. il. 4° [Large post-early Miocene right lateral movement is suggested by early Miocene faunal distributions and paleogeography. Contributions to paleontology.] \* Paper, 20c.
- 17828 Publications of Geological Survey, 1963. 1967. vi+54 p. † ● Item 623  
L.C. card GS 11-221 I 19.14: 966
- Water-supply papers. ● Item 625 I 19.13: (nos.)**
- 17829 1576-H. Ground-water resources of southern part of Jicarilla Apache Indian Reservation and adjacent areas, N. Mex. [with list of references cited]; by Elmer H. Baltz and S. W. West. 1967. iv+89 p. il. 5 pl. in pocket. [Prepared in cooperation with Jicarilla Apache Tribe. Water supply of Indian reservations. One plate is colored.] \* Paper, \$3.00.
- 17830 1839-A. Reconnaissance of chemical quality of surface waters of Neches River basin, Tex. [with list of selected references]; by Leon S. Hughes and Donald K. Leifeste. 1967. iv+63 p. il. 4 pl. in pocket. [Prepared in cooperation with Texas Water Development Board. Contributions to hydrology of United States. Two plates are colored.] \* Paper, \$1.50.
- 17831 1839-M. Comparison of methods of estimating potential evapotranspiration from climatological data in arid and subhumid environments [with list of references cited]; by R. W. Cruft and T. H. Thompson. 1967. iv+23 p. il. [Prepared in cooperation with California Department of Water Resources. Contributions to hydrology of United States.] \* Paper, 15c.
- 17832 1846. Ground water in vicinity of American Falls Reservoir, Idaho [with list of references]; by M. J. Mundorff. 1967. iv+58 p. il. 5 pl. in pocket. [Prepared in cooperation with Bureau of Reclamation.] \* Paper, \$2.00.  
L.C. card GS 67-257
- 17833 1849. Roughness characteristics of natural channels [with list of selected references]; by Harry H. Barnes, jr. 1967. vi+213 p. il. [Color photographs and descriptive data for 50 stream channels for which roughness coefficients have been determined.] \* Cloth, \$2.25.  
L.C. card GS 66-322
- 17834 1881. Quality of surface waters of United States 1961: pts. 1 and 2. North Atlantic slope basins and South Atlantic slope and eastern Gulf of Mexico basins [with list of literature cited; prepared by personnel of Water Resources Division]. 1967. xi+412 p. il. [Prepared in cooperation with States of Alabama, Connecticut, Delaware, District of Columbia, Florida, Georgia, Maryland, New Jersey, New York, North Carolina, Pennsylvania, South Carolina, and with other agencies.] \* Paper, \$1.50.

☛For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 37

# GOVERNMENT PUBLICATIONS

## HOUSING AND URBAN DEVELOPMENT DEPARTMENT Washington, DC 20410

### HUD IP-(series).

HH 1.27:(nos.)

- 17835 26. Summary of urban renewal program, incorporating changes resulting from Demonstration cities and metropolitan act of 1966, cover title, 10 p. 4° [Illustration on p. 1 of cover.] †
- 17836 43. HUD, what it is, what it does. [July 1967.] cover title, 38+[2] p. il. oblong 24° \* Paper, 20c. ● Item 582-G
- 17837 61. Cities on the move, HUD's urban transportation programs help urbanites move into 21st century. [May 1967.] cover title, 28 p. il. oblong 8° [Text on p. 2 and 3 of cover.] † ● Item 582-G
- 17838 76. Water and sewer facilities grant program. [July 1967.] 12 p. narrow 8° (HUD consumer bulletin.) † ● Item 582-G

### HUD MP-(series).

- 17839 53. Communities and youth, commitment to opportunity, address by Hubert H. Humphrey, Vice President of United States [delivered at 3d National Legislative Conference of National League of Cities in Washington, D.C., Mar. 14, 1967]. [Aug. 1967.] cover title, 16 p. il. † ● Item 583-H  
HH 1.28: 53

### HUD TS (series).

- 17840 17. Strengthening community services in low-income neighborhoods, field guide to concerted services, report of Joint Task Force on Health, Education, and Welfare Services and Housing, 1967; [prepared by J. Louis Browning]. [June 1967.] [4]+17 p. il. 4° [Page 17 appears on p. 3 of cover.] \* Paper, 20c. ● Item 593-C  
L.C. card 67-62920  
HH 1.31: 17
- 17841 Needed, a team effort, remarks by H. Ralph Taylor, Assistant Secretary for Demonstrations and Intergovernmental Relations, Department of Housing and Urban Development, at 74th annual conference of International Association of Police Chiefs, Kansas City, Mo., Sept. 12, 1967. 1967. [1]+11 leaves, 4° †  
HH 1.7: T 21/4
- 17842 Remarks by Dwight A. Ink, Assistant Secretary for Administration, Department of Housing and Urban Development, at 62d annual convention of Virginia Municipal League, Norfolk, Va., Sept. 18, 1967. [1967.] 13 p. 4° †  
HH 1.7: In5
- 17843 Retirement housing, western style, address by Marie C. McGuire, Assistant for Problems of Elderly and Handicapped, Department of Housing and Urban Development, Western Gerontological Conference, Los Angeles, Calif., Oct. 20, 1967. 1967. [1]+19 p. 4° †  
HH 1.7: M17

## IMMIGRATION AND NATURALIZATION SERVICE, Justice Dept. Washington, DC 20536

- 17844 Federal textbook on citizenship: English and Federal Government, home study course [sec. 2 for helper]. Revised 1967. [1967.] vi+99 p. 4° (M-44.) \* Paper, 55c. ● Item 724  
L.C. card 46-26183  
J 21.9: En 3/2/sec.2/967

## INTERIOR DEPARTMENT Washington, DC 20240

NOTE.—Requests to the Interior Department for publications should give the full title and the date of the publication. Do not include Monthly Catalog entry numbers or Superintendent of Documents classification numbers, which should be used only when ordering from the Superintendent of Documents.

- 17845 Decisions of Department of Interior, Jan.-Dec. 1966; edited by Vera E. Burgin. 1967. v. 73, lxiv+480 p. il. \* Cloth, \$2.25. ● Item 602  
L.C. card 7-23651  
I 1.69: 73
- 17846 Job Corps Conservation Centers National Conference, Denver, Colo., June 5-8, 1967. [July 31, 1967.] cover title, [161] p. 4° †  
L.C. card 67-62953  
I 1.2: J 57/967
- 17847 Remarks of Assistant Secretary of Interior, J. Cordell Moore, before Emergency Petroleum Supply Committee meeting, Washington, D.C., Oct. 6, 1967. 1967. 2 leaves, 4° †  
I 1.68: M 78/8

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

[Saline water] research and development progress report. (Office of Saline Water.) ● Item 604-A-1 I 1.88:(nos.)

- 17848 253. 5th annual report, saline water conversion demonstration plant no. 1, Freeport, Tex., July 1, 1965-June 30, 1966; by Stearns-Roger Manufacturing Co., Denver, Colo. Mar. 1967. [2]+xii+278 p. il. 4° [Series indicated on on title page as Saline water conversion progress report.] \* Paper, \$3.00. L.C. card 65-62313
- 17849 266. Feasibility study of chemical sealing of soils [with bibliography]; by W. T. Goodling, jr., A. D. Bergmann, and C. G. Vinson, Diamond Alkali Co. June 1967. [4]+31 p. il. 4° ([Contract 14-01-0001-649.]) \* Paper, 25c.
- 17850 Telephone directory, Department of Interior, fall 1967. [1967.] cover title, 84+[6] p. 4° [Text on p. 2 of cover.] \* Paper, 50c. I 1.86: 967-2

## INTERNAL REVENUE SERVICE, Treasury Dept. Washington, DC 20224

- 17851 Looseleaf regulations system: Service 1, Income tax, transmittal 98. Oct. 6, 1967. [14] p. 4° ● Item 961 T 22.19/3: 1/trans.98
- NOTE.—Service 1 consists of pts. 1, 2, 18, and 19 of title 26 of Code of Federal regulations. It is sold on a subscription basis by the Superintendent of Documents, \$16.00 (including basic material and supplements issued irregularly for approximately 3 years); \$4.00 additional for foreign mailing.
- 17852 — Service 5, Procedure and administration, transmittal 37. Sept. 22, 1967. [26] p. 4° ● Item 961 T 22.19/3: 5/trans.37
- NOTE.—Service 5 consists of pts. 152, 301-303 and 601 of title 26 of Code of Federal regulations. It is sold on a subscription basis by the Superintendent of Documents, \$4.50 (including basic material and supplements issued irregularly for approximately 3 years); \$1.00 additional for foreign mailing.

## INTERNATIONAL COMMERCE BUREAU, Commerce Dept. Washington, DC 20230

- 17853 Market for U.S. products in Taiwan [with bibliography; by Maurice Kogon]. [Oct. 1967.] vi+127 p. il. 4° [Supplement to International commerce.] \* Paper, 75c. ● Item 214 C 42.8/2: T13  
L.C. card 67-62882
- 17854 Statement by Lawrence A. Fox, director, Bureau of International Commerce, Department of Commerce, International Trade Session, 54th National Foreign Trade Convention, New York, N.Y., Nov. 1, 1967. [1967.] 6 p. 4° † C 42.18: F83/3

## INTERNATIONAL DEVELOPMENT AGENCY, State Dept. Washington, DC 20523

- 17855 Agency for International Development procurement regulations, [1st edition.], amdt. 1; [July 1966]. [1966.] [20] p. 4° (Office of Material Resources.) [Issued in looseleaf form.] \* Paper, \$6.00 (including basic regulations and supplementary material for an indefinite period); \$1.00 additional for foreign mailing. S 18.6/2: 965/amdt.1
- 17856 — amdt. 2; June 1967. [1967.] [153] p. 4° (Office of Procurement.) [Issued in looseleaf form.] \* Paper, \$6.00 (including basic regulations and supplementary material for an indefinite period); \$1.00 additional for foreign mailing. ● Item 900-C-5 S 18.6/2: 965/admt.2

## INTERSTATE COMMERCE COMMISSION Washington, DC 20423

- 17857 Decisions of Interstate Commerce Commission, Sept. 1965-Aug. 1966, 1967. xx+799 p. (Interstate Commerce Commission reports, v. 326.) \* Cloth, \$3.75. ● Item 677 IC 1.6: 326  
L.C. card 8-30656

☞For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## JOINT CHIEFS OF STAFF, Defense Dept. Washington, DC 20301

- 17858 National security management: Maintenance management in Department of Defense; [by] Harold J. Clem. 1967. v+28 p. ([Monograph series]; Industrial College of Armed Forces.) ‡ • Item 315-B  
L.C. card 67-62912 D 5.9/4: M28

## JOINT PUBLICATIONS RESEARCH SERVICE Washington, DC 20443

NOTE.—Titles of JPRS serial reports listed below were issued during the month, but were not cataloged separately.

- 17859-1 Communist China digest, no. 190; JPRS 42977.  
17859-2 Communist Chinese scientific abstracts: Agricultural science and technology, nos. 63-66; JPRS 42859, 42942, 42947, 42981.  
17859-3 Communist Chinese scientific abstracts: Bio-medical sciences, nos. 235-260; JPRS 42850, 42919, 42941, 42960, 42979, 42986.  
17859-4 Communist Chinese scientific abstracts: Chemistry, nos. 87-88; JPRS 42858, 42980.  
17859-5 Communist Chinese scientific abstracts: Engineering and equipment, no. 111; JPRS 42855.  
17859-6 Communist Chinese scientific abstracts: General science, nos. 44-47; JPRS 42844, 42943, 42948, 42991.  
17859-7 East European scientific abstracts: Bio-medical science, nos. 86-87; JPRS 42908, 42988.  
17859-8 East European scientific abstracts: Chemistry, no. 94; JPRS 42914.  
17859-9 East European scientific abstracts: Earth sciences, no. 60; JPRS 42853.  
17859-10 East European scientific abstracts: Materials science and metallurgy, no. 18; JPRS 42854.  
17859-11 East European scientific abstracts: Physics and mathematics, no. 85; JPRS 42909.  
17859-12 Economic and geographic translations on Latin America, nos. 93-94; JPRS 42852, 42954.  
17859-13 Herald of communications, no. 7; JPRS 42951.  
17859-14 Index of La Stampa and La Stampa sera, nos. 386-387; JPRS 42875, 42959.  
17859-15 Index of Le Monde, no. 88; JPRS 42931.  
17859-16 Military information on Eastern Europe, nos. 172-173; JPRS 42936, 42993.  
17859-17 Political translations on Eastern Europe, nos. 297-298; JPRS 42946, 42963.  
17859-18 Press information report on Albania, no. 230; JPRS 42978.  
17859-19 Press information report on Iran, no. 32; JPRS 42874.  
17859-20 Sociological translations on Eastern Europe, nos. 473-474; JPRS 42881, 42989.  
17859-21 Translations from Hoc tap (Studies), North Vietnam, no. 8, 1967; JPRS 42939.  
17859-22 Translations from Hung-ch'i (Red flag), no. 67; JPRS 42866.  
17859-23 Translations from Kommunist, no. 12, 1967; JPRS 42903.  
17859-24 Translations on Africa, nos. 642-647; JPRS 42857, 42877, 42907, 42912, 42933, 42992.  
17859-25 Translations on Communist China: Economic, no. 33; JPRS 42911.  
17859-26 Translations on Communist China: Political and sociological, nos. 424-426; JPRS 42887, 42933, 42961.  
17859-27 Translations on Communist China: Science and technology, no. 393; JPRS 42845.  
17859-28 Translations on Cuba, nos. 625-628; JPRS 42876, 42945, 42950, 42966.  
17859-29 Translations on East European agriculture, forestry, and food industries, nos. 592-596; JPRS 42882, 42932, 42937, 42936, 42994.  
17859-30 Translations on East European electronic and precision equipment industries, no. 20; JPRS 42958.  
17859-31 Translations on East European foreign trade, nos. 362-364; JPRS 42843, 42915, 42990.  
17859-32 Translations on East European machinery industries, no. 37; JPRS 42869.  
17859-33 Translations on East European materials industries, nos. 398-401; JPRS 42879, 42916, 42938, 42964.  
17859-34 Translations on East European service industries, nos. 567-570; JPRS 42886, 42917, 42965, 42995.  
17859-35 Translations on economic organization and management in Eastern Europe; nos. 749-752; JPRS 42849, 42910, 42952, 42957.  
17859-36 Translations on international Communist developments; nos. 998-999; JPRS 42847, 42889.  
17859-37 Translations on Near East, nos. 200-208; JPRS 42861, 42884, 42921, 42934, 42940, 42944, 42949, 42982, 42987.  
17859-38 Translations on North Korea, nos. 59-61; JPRS 42856, 42860, 42883.  
17859-39 Translations on North Vietnam, nos. 257-263; JPRS 42846, 42851, 42873, 42888, 42920, 42930, 42972.  
17859-40 Translations on Soviet education, no. 73; JPRS 42985.  
17859-41 Translations on USSR agriculture, no. 222; JPRS 42975.  
17859-42 Translations on USSR communications, no. 90; JPRS 42976.  
17859-43 Translations on USSR consumer goods and domestic trade, nos. 199-202; JPRS 42872, 42880, 42905, 42984.  
17859-44 Translations on USSR labor, nos. 207-208; JPRS 42904, 42974.  
17859-45 Translations on USSR transportation, no. 198; JPRS 42983.

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

- 17859-46 USSR economy and industry: General information, nos. 171-175; JPRS 42867, 42878, 42922, 42973, 42838.  
 17859-47 USSR industrial development: Automotive and tractor industry, no. 62; JPRS 42885.  
 17859-48 USSR industrial development: Chemical industry and machinery, nos. 61-62; JPRS 42862, 42967.  
 17859-49 USSR industrial development: Construction, construction machinery, and building materials, nos. 109-112; JPRS 42863, 42868, 42923, 42968.  
 17859-50 USSR industrial development: Electric power, fuels and related equipment, nos. 73-77; JPRS 42848, 42864, 42906, 42935, 42969.  
 17859-51 USSR industrial development: Electronics and precision equipment, nos. 32-35; JPRS 42865, 42870, 42924, 42970.  
 17859-52 USSR industrial development: Metallurgy and minerals, nos. 71-72; JPRS 42871, 42971.  
 17859-53 USSR scientific abstracts: Physics and mathematics, nos. 123-126; JPRS 42913, 42918, 42955, 42962.

JPRS (series).

Y 3.J66: 13/(nos.)

- 17860 42837. Studies in theory of genetic information, USSR [excerpts]; by N. Zhukov-Berezhnikov. Oct. 5, 1967. [2]+a+21 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-33463).  
 17861 42839. Variable-structure automata, USSR [with bibliography]; by G. A. Agasundyan. Oct. 5, 1967. [2]+3 leaves, 4° [From Doklady Akademii Nauk SSSR, v. 174, no. 3, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33465).  
 17862 42840. Dual problems in convex and convex-fractional programming in functional spaces, USSR [with bibliography]; by Ye. G. Gol'shteyn. Oct. 5, 1967. [2]+11 p. 4°  $\Phi$  Paper, \$3.00 (TT: 67-33466).  
 17863 42841. Statute of Polish Society of Amateur Astronomers. Oct. 5, 1967. [2]+15 p. 4° [Supplement to Urania, no. 7/8, July-Aug. 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33467).  
 17864 42842. Studies on vestibular apparatus of humans and animals, USSR [articles, with bibliographies]. Oct. 5, 1967. [2]+a+31 p. il. 4° [From Vestnik otorinolaringologii, no. 4, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33468).  
 17865 42890. Treatment of diabetics at Polish health resorts; by M. Ya. Grabovskaya. Oct. 9, 1967. [2]+8 p. 4° [From Voprosy kurortologii, fizioterapii i lechebnoy fizicheskoy kultury, no. 4, July-Aug. 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33516).  
 17866 42891. Production of inverse population by mixing of hot plasma with cold gas, USSR [with bibliography]; by L. V. Popov. Oct. 9, 1967. [2]+10 p. il. 4° [From Zhurnal prikladnoy spektroskopii, v. 5, no. 2, Aug. 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-33517).  
 17867 42892. Robots serve as museum guides, USSR [articles]; by M. Aleksandrov, et al. Oct. 9, 1967. [2]+6 p. il. 4° [From Tekhnika molodezhi, no. 6, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33518).  
 17868 42893. Algorithm for approximate solution of resource distribution problem in network planning, USSR [with bibliography]; by L. Ya. Leyfman. Oct. 9, 1967. [2] p.+4 leaves, 4° [From Doklady Akademii Nauk SSSR, v. 175, no. 2, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33519).  
 17869 42894. Connecting dynamic production models into schemes, USSR [with bibliography]; by Yu. P. Krivenkov. Oct. 9, 1967. [2]+8 p. il. 4° [From Doklady Akademii Nauk SSSR, v. 174, no. 6, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33520).  
 17870 42895. Conditions of maximum response of magnetometer based on optical orientation of atoms, USSR [with bibliography]; by G. P. Nedobodiyev et al. Oct. 9, 1967. [2] p.+3 leaves, il. 4° [From Geofizicheskaya, apparatura, no. 26, 1965.]  $\Phi$  Paper, \$3.00 (TT: 67-33521).  
 17871 42896. Program of Belorussian State University's Physics Department, USSR; by I. Zyat'kov, et al. Oct. 9, 1967. [2] p.+4 leaves, 4° [From Sovetskaya Belorussiya, July 29, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33522).  
 17872 42897. Geodesy and cartography, no. 4, 1967, Hungary. Oct. 9, 1967. [2]+a+11 p. 4° [Translation of 2 articles from periodical.]  $\Phi$  Paper, \$3.00 (TT: 67-33523).  
 17873 42898. Propagation of long and superlong radio waves in earth-ionosphere waveguide channel, USSR [with bibliography]; by S. T. Rybachek et al. Oct. 9, 1967. [2]+11 p. il. 4° [Problemy diffraktsii i rasprostraneniya voln, no. 5, 1966.]  $\Phi$  Paper, \$3.00 (TT: 67-33524).  
 17874 42899. Treating neurodermatitis patients with electrosleep and hypnosis, USSR [excerpt]; by Yu. K. Skripkin. Oct. 9, 1967. [2]+a+10 p. il. 4° [From Neyrodermit, voprosy etiologii, patogenez i terapii, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33525).  
 17875 42900. Strategic importance of cybernetics, USSR; by A. Khar'kovskiy. Oct. 9, 1967. [2] p.+5 leaves, 4° [From Tekhnika molodezhi, no. 7, July 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33526).  
 17876 42901. Scientific research and development base in Slovakia, Czechoslovakia; by Julius Pavlis. Oct. 9, 1967. [2]+7 p. 4° [From Hospodarske noviny, no. 36, Sept. 8, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33527).  
 17877 42902. New Soviet medical apparatus [articles]. Oct. 9, 1967. [2]+a+16 p. il. 4° [From Meditsinskaya tekhnika, no. 4, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33528).  
 17878 42925. Development of cancer chemotherapy in Soviet Union, USSR; by L. F. Larionov. Oct. 11, 1967. [2]+44 p. 4° [From Voprosy onkologii, v. 13, no. 8, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33551).

$\Phi$ For Sale by Clearinghouse, U.S. Department of  
 Commerce, Springfield, Va. 22151

●Sent to Depository Libraries



# GOVERNMENT PUBLICATIONS

## JPRS (series)—Continued

- 17879 42926. Certain characteristics of decision model algorithm of Leont'yev type, international; by V. Z. Belen'kiy. Oct. 11, 1967. [2] p.+4 leaves, 4° [Report 14; delivered at International Congress of Management Sciences, Mexico City, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33552).
- 17880 42927. Self-regulation of higher nervous activity, USSR; by A. Krauklis. Oct. 11, 1967. [2]+8 p. il. 4° [From Nauka i tekhnika, no. 3, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33553).
- 17881 42928. Minimum time for Earth-Mars-Earth flight with unregulated low-thrust engine, USSR [with bibliography]; by R. F. Avramchenko, et al. Oct. 11, 1967. [2]+14 p. il. 4° [From Kosmicheskii issledovaniya, v. 5, no. 3, 1967.]  $\Phi$  Paper, \$3.00 (TT: 67-33554).
- 17882 42929. Short manual on toxicology, USSR; by G. A. Stepan'skiy, et al. Oct. 11, 1967. [2]+a-c+375 p. il. 4°  $\Phi$  Paper, \$3.00 (TT: 67-33555).

## JUSTICE DEPARTMENT

Washington, DC 20530

- 17883 Identical bidding in public procurement, 6th report of Attorney General under Executive order 10936. July 1967. v+221 p. 4° \* Paper, \$1.25.  
 ● Item 719-D  
 L.C. card 62-64527 J 1.31: 967

## LABOR DEPARTMENT

Washington, DC 20210

- 17884 Manpower research projects, sponsored by Manpower Administration through June 20, 1967. Sept. 1967. xxvii+196 p. 4° † ● Item 746-I  
 L.C. card 67-62916 L 1.39/6: 967
- 17885 Seminar on manpower policy and program: Manpower potential in our ethnic groups [Washington, D.C., Jan. 12, 1967]; by Edward T. Hall. [Aug. 1967.] [1]+24 p. (Manpower Administration [Office of Manpower Policy, Evaluation, and Research].) [Condensed transcript. Text and illustration on p. 1 and 2 of cover.] † ● Item 745  
 L.C. card 67-62886 L 1.2: M 31/45
- 17886 — Womanpower policies for 1970's; by Wilbur J. Cohen. [Oct. 1967.] [1]+40 p. (Manpower Administration [Office of Manpower Policy, Evaluation, and Research].) † ● Item 745  
 L.C. card 67-62887 L 1.2: M 31/44

## LABOR STANDARDS BUREAU, Labor Dept.

Washington, DC 20210

### Bulletin.

- 17887 302. Safety in industry, instructor outline, Department of Labor safety training programs: Construction safety, site clearing; [by Francis L. Otto]. [1967.] cover title, [1]+v+20 p. il. 4° [Text on p. 2 of cover.] \* Paper, 25c. ● Item 763 L 16.3: 302
- 17888 Maritime safety data for shipyards: Shipyard scaffolding; [prepared by Roland Belanger]. [1967.] 19 p. il. 4° (MSD LS-74; OOS 10.65.) †  
L 16.47/2: Sca 2
- 17889 — Temporary lights for flammable atmospheres and for general use. [Oct. 1967.] 13 p. il. 4° † L 16.47/2: F 61/2/967

## LABOR STATISTICS BUREAU, Labor Dept.

Washington, DC 20210

### BLS reports. †

L 2.71:(nos.)

- 17890 318. Work injuries and work injury rates in heavy construction industry; [prepared by William E. Tarraats]. June 1967. v+68 p. il. 4° † ● Item 768-G  
 L.C. card 67-62919
- 17891 326. 1870 input-output coefficients; [prepared by Ronald E. Kutscher]. [Sept. 1967.] cover title, [3]+11 p. 4°  
 L.C. card 67-62939

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



# DECEMBER 1967

## Bulletins. ● Item 768

L 2.3: (nos.)

- 17892 1530-86. 1530-86. Area wage survey: Akron, Ohio, metropolitan area, July 1967. Sept. 1967. iii+32 p. oblong 8° \* Paper, 25c.  
L.C. card L 66-154
- 17893 1561. Compensation expenditures and payroll hours: Motor passenger transportation industries, 1964: [prepared by Robert E. Pope]. Sept. 1967. vi+57 p. li. 4° \* Paper, 40c.  
L.C. card 67-62938
- 17894 1570-1. City worker's family budget for moderate living standard, autumn 1966 [with list of technical references; prepared by Jean C. Brackett]. [1967.] vii+40 p. 4° \* Paper, 30c.  
L.C. card 67-62959
- 17895 1575-1. Area wage survey: Manchester, N.H., metropolitan area, July 1967. Sept. 1967. iii+18+ [1] p. oblong 8° \* Paper, 20c.  
L.C. card L 66-30
- 17896 1575-2. Same: Little Rock-North Little Rock, Ark., metropolitan area, July 1967. Sept. 1967. iii+24 p. oblong 8° \* Paper, 25c.  
L.C. card L 66-42
- 17897 1575-3. Same: Boise City, Idaho, metropolitan area, July 1967. Sept. 1967. iii+18+ [1] p. oblong 8° \* Paper, 20c.  
L.C. card L 66-37
- 17898 Bureau of Labor Statistics, catalog of publications, periodicals, bulletins, reports & releases, Jan.-June 1967. [1967.] cover title, i+45 p. 4° [Text on p. 2 of cover.] † ● Item 768-E  
L.C. card L 48-22
- 17899 Occupational earnings and wage trends in metropolitan areas, 1966-67, summary release no. 3 (29 areas). Sept. 1967. 10+[2] p. 4° †  
L 2.86: 966-67/no.3
- 17900 Revised equivalence scale for estimating income and budget costs by family type. [1967.] [2] leaves, 4° †  
L 2.2: In 2/5
- 17901 Wage trends for occupational groups in metropolitan areas, 1966-67, summary release, Oct. 1967. 5 p. 4° †  
L 2.86/2: 966-67

## LAND MANAGEMENT BUREAU, Interior Dept. Washington, DC 20240

- 17902 Ephemeris of sun, Polaris, and other selected stars with companion data and tables for [calendar] year 1968; prepared by Nautical Almanac Office, United States Naval Observatory. 59th edition. 1967. ii+30 p. 1 pl. [Supplement to Manual of instructions for survey of public lands of United States.] \* Paper, 25c. ● Item 630  
L.C. card 10-35913

I 53.8: 968

## LIBRARY OF CONGRESS Washington, DC 20540

- 17903 Weather modification in Soviet Union, 1946-66, selected annotated bibliography; by Nikolay T. Zikeev and George A. Doumani. 1967. x+78 p. 4° (Science and Technology Division, Reference Department.) \* Paper, 55c. ● Item 818-A  
L.C. card 67-61609

LC 33.2: So 8/4

## MARINE CORPS (Navy), Defense Dept. Washington, DC 20350

Marine Corps historical reference pamphlets. (Historical Branch, G-3 Division.) †

- 17904 Brief history of 9th Marines; by Truman R. Strobridge. 1961, revised 1967. 1967. [3]+30 p. 4°  
L.C. card 67-62897
- 17905 Marine Corps aircraft, 1913-65 [with bibliography]. 1961, reprinted 1964, revised 1967. [1967.] [3] leaves+73 p. 4°
- 17906 Mobilization of Marine Corps Reserve in Korean conflict, 1950-51; by Ernest H. Giusti. 1951, reprinted 1967. vi+80 p. li. 4°

D 214.14/2: H 62

D 214.14/2: A1 7

D 214.14/2: K 84

☛For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## MARITIME ADMINISTRATION, Commerce Dept. Washington, DC 20548

MA SP (series). †

C 39.210/2:(nos.)

- 17907 67-5. Tide of fortune, by J. W. Gulick, acting Maritime Administrator, Department of Commerce, remarks at American Merchant Marine Conference, Honolulu, Hawaii, Oct. 12, 1967. 1967. 9 p. 4° ([US-COMM-DC 42281.])
- 17908 67-6. Damn the torpedoes, by J. W. Gulick, Acting Maritime Administrator, Department of Commerce, remarks before Propeller Club, San Pedro, Calif., Oct. 25, 1967. 1967. 8 p. 4°
- 17909 Review of United States oceanborne foreign trade, 1966: [prepared by William B. Ebersold]. [1967.] 24 p. il. 4° \* Paper, 20c. ● Item 235  
L.C. card 67-62961 C 39.202: Oc 2

## MILITARY ACADEMY, West Point (Army), Defense Dept. West Point, NY 10996

- 17910 United States Military Academy, [West Point, N.Y.], catalogue 1967-68, 166th year. [1967.] [5]+208 p. il. † ● Item 353  
L.C. card 46-27855 D 109.8: 967-68

## MINES BUREAU, Interior Dept. Washington, DC 20240

Information circulars. ● Item 637-A

I 28.27:(nos.)

- 17911 8351. Magnetic susceptibility of 19 nickel- and cobalt-bearing minerals; by H. E. Powell. [Oct. 1967.] [3]+12 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 17912 8352. Heavy crude oil, resource, reserve, and potential production in United States [with lists of references]; by Petroleum Staff, Mineral Resource Offices. [1967.] [2]+iii+76 p. il. 4° \* Paper, 45c.

Report of investigations. ● Item 637-A

I 28.23:(nos.)

- 17913 7029. Design and development of light-weight recoverable hydraulic prop [with bibliography]; by Webster S. Anderson. [Oct. 1967.] [3]+19 p. il. 4° [Errata, 1 p., issued also.] † Mines Bureau, Pittsburgh, Pa. 15213
- 17914 7030. Nonuniform radial loads applied to boundary of circular hole in infinite plate [with list of references]; by Wilbur I. Duvall and Wilson Blake. [Oct. 1967.] [3]+16 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 17915 7031. Developing thermochemical model for iron blast furnace, measurement of rate coefficient for reduction of iron ore pellets in packet bed [with list of references]; by Hillary W. St. Clair. [Oct. 1967.] [3]+20 p. il. 4° [Errata, 1 p., issued also.] † Mines Bureau, Pittsburgh, Pa. 14213
- 17916 7036. Molten-salt electrorefining vanadium scrap [with list of references]; by K. P. V. Lei and T. A. Sullivan. [Oct. 1967.] [3]+18 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213

## MOTOR CARRIER SAFETY BUREAU, Transportation Dept. Washington, DC 20591

NOTE.—The Motor Carrier Safety Bureau was transferred from the Interstate Commerce Commission to the Federal Highway Administration, Transportation Department, by Public Law 89-670, approved Oct. 15, 1966.

Motor carrier accident investigation report.

- 17917 67-7. Gray Line Sightseeing Tours, Inc., accident, July 31, 1967. Stuart, Fla. [1967.] 7 p. il. 4° † TD 2.309: 67-7

## NARCOTICS BUREAU, Treasury Dept. Washington, DC 20226

- 17918 Traffic in opium and other dangerous drugs, report for year ended Dec. 31, 1966. [1967.] vi+67 p. il. \* Paper, 30c. ● Item 969  
L.C. card 31-26999 T 56.8: 966

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, DC 20546

AEC-NASA tech briefs. [Descriptions of innovations resulting from research and development program of AEC or from AEC-NASA inter-agency efforts.] † Paper, each 15c. NAS 1.29/2:(nos.)

- 17919 67-10281. Computer program predicts thermal and flow transients in reactor loss-of-flow accident. Aug. 1967. 1 p. 4° (NUC-10054.)

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17920 67-10293. Square tubing reduces cost of telescoping bridge crane hoist, Aug. 1967. [2] p. il. 4° ([ARG-13.])
- 17921 67-10296. Thermal neutron image intensifier tube provides brightly visible radiographic pattern. Aug. 1967. [2] p. il. 4° ([ARG-120.])
- 17922 67-10316. Radiation counting technique allows density measurement of metals in high-pressure-high-temperature environment. Sept. 1967. 1 p. 4° (ARG-124.)
- 17923 67-10318. Electronic test instrument generates extremely small current signals. Sept. 1967. [2] p. il. 4° ([ARG-276.])
- 17924 67-10324. Thermodynamic properties of solid palladium-silver alloys and other alloys are investigated by torsion-effusion technique. Sept. 1967. [2] p. il. 4° ([ARG-277.])
- 17925 67-10343. Limit circuit prevents over-driving of operational amplifier. Sept. 1967. [2] p. il. 4° ([NUC-10082.])
- 17926 67-10344. Computer subroutine ISUDS accurately solves large system of simultaneous linear algebraic equations. Sept. 1967. 1 p. 4° (NUC-10051.)
- 17927 67-10345. Computer program VARI-QIR III provides solution of steady-state, multigroup, 2-dimensional neutron diffusion equations. Sept. 1967. 1 p. 4° (NUC-10052.)
- 17928 67-10346. Thermodynamic properties of saturated liquid parahydrogen charted for important temperature range. Sept. 1967. [2] p. il. 4° ([NUC-10018.])
- 17929 67-10348. Computerized parts list system coordinates engineering releases, parts control, and manufacturing planning. Sept. 1967. [2] p. 4° (NUC-10073.)
- 17930 67-10349. Excellent spring properties developed in 2 nickel alloys for use at cryogenic temperatures. Sept. 1967. [2] p. 4° ([NUC-10084.])
- 17931 67-10351. Metal flame spray coating protects electrical cables in extreme environment. Oct. 1967. [2] p. il. 4° ([NUC-10077.])
- 17932 67-10401. Metal tube reducer is inexpensive and simple to operate. Oct. 1967. [2] p. il. 4° ([ARG-49.])

## NASA contractor report CR (series).

NAS 1.26:(nos.)

- 17933 803. Discrete-element methods for plastic analysis of structures [with list of references]; by G. Isakson, H. Armen, Jr., and A. Pifko. Oct. 1967. xii+206 p. il. 4° [Prepared under contract NAS 1-5040 by Grumman Aircraft Engineering Corporation, Bethpage, N.Y. Issued by originator as report RE-287.] ♣ Paper, \$3.00. L.C. card 67-62942
- 17934 875. Studies of multivariable manual control systems, 2-axis compensatory systems with separated displays and controls [with list of references]; by William H. Levison and Jerome I. Elkind. Oct. 1967. cover title, viii+123 p. il. 4° [Prepared under contract NAS 2-3080 by Bolt Beranek and Newman Inc., Cambridge, Mass. Issued by originator as report 1459.] ♣ Paper, \$3.00.
- 17935 880. Digital filters for non-real-time data processing [with bibliography]; by James T. Taylo. Oct. 1967. cover title, ix+197 p. il. 4° [Prepared under contract NAS 8-11492 by Northeast Louisiana State College, Monroe, La.] ♣ Paper, \$3.00. L.C. card 67-62883
- 17936 883. Lunar Orbiter II, photographic mission summary. [Oct. 1967.] vii+86 p. il. 1 pl. 4° [Prepared under contract NAS 1-3800 by Boeing Company, Seattle, Wash. Issued by originator as Document D2-100752-1.] ♣ Paper, \$3.00.
- 17937 890. Bacteriology of clean rooms [with list of references]; by G. S. Michaelsen, O. R. Kuschmeyer, and D. Vesley. Oct. 1967. cover title, v+69 p. il. 4° [Prepared under grant NSG-643 by University of Minnesota.] ♣ Paper, \$3.00.
- 17938 899. Corrosion of aluminum in water [with list of references]; by D. N. Fultonberg. Oct. 1967. cover title, vii+76 p. il. 4° [Prepared under contract NAS 3-5215 by Westinghouse Electric Corporation, Pittsburgh, Pa. Originally issued as Westinghouse document WCAP-7029, May 1967.] ♣ Paper, \$3.00.
- 17939 901. Crack propagation theories [with list of references]; by Fazil Erdogan. Oct. 1967. cover title, vi+166 p. il. 4° [Prepared under grant NGR 39-007-011 by Lehigh University, Bethlehem, Pa.] ♣ Paper, \$3.00. L.C. card 67-62944
- 17940 903. Stabilization system analysis and performance of GEOS-A gravity-gradient satellite (Explorer XXIX) [with list of references]; by V. L. Piscane, P. P. Pardoe, and B. J. Hook. Oct. 1967. cover title, v+12 p. il. 4° [Prepared under contract W-12014 by Johns Hopkins University Applied Physics Laboratory, Silver Spring, Md. Issued by originator as report TG-901.] ♣ Paper, \$3.00.
- 17941 905. Transient radiation and conduction in slotted slab and hollow cylinder [with list of references]; by P. D. Richardson and Y. M. Shum. Oct. 1967. cover title, [1]+60 p. il. 4° [Prepared under grant NGR-40-002-012 by Brown University, Providence, R.I.] ♣ Paper, \$3.00.
- 17942 906. Experiment in low energy plasmas [with list of references]; by E. H. Holt and J. H. Noon. Oct. 1967. cover title, iii+33 p. il. 4° [Prepared under grant NSG-48 by Rensselaer Polytechnic Institute, Troy, N.Y. Issued by originator as technical report 67-1.] ♣ Paper, \$3.00.

# GOVERNMENT PUBLICATIONS

## NASA contractor report CR (series)—Continued

- 17943 907. Performance of multilayer insulation systems for temperatures to 700° K [with list of references]; by George R. Cunningham, Jr. [and others]. Oct. 1967. cover title, ix+106 p. il. 4° [Prepared under contract NAS 2-2441 by Lockheed Aircraft Corporation, Palo Alto, Calif.]  $\Phi$  Paper, \$3.00.
- 17944 910. Measuring human performance with parameter tracking version of crossover model [with list of references]; by Glenn A. Jackson. Oct. 1967. cover title, xxii+232 p. il. 4° [Prepared under contract NASr54(06) by University of Michigan, Ann Arbor, Mich.]  $\Phi$  Paper, \$3.00.
- 17945 918. Evaluation of user reactions to prototype on-line information retrieval system [with list of references]; by David Meister and Dennis J. Sullivan. Oct. 1967. cover title, v+58 p. il. 4° [Prepared under contract NASw-1369 by Bunker-Ramo Corporation, Canoga Park, Calif.]  $\Phi$  Paper, \$3.00.
- 17946 932. On differential equations of axisymmetric vibration of paraboloidal shells of revolution [with list of references]; by James Tung-shun Wang and Chl-wen Lin. Nov. 1967. cover title, iii+19 p. il. 4° [Prepared under grant NSG-571 by Georgia Institute of Technology, Atlanta, Ga.]  $\Phi$  Paper, \$3.00.
- 17947 934. Experimental investigation of radial displacements of thin-walled cylinder [with list of references]; by O. G. S. Ricardo. Nov. 1967. cover title, vi+45 p. il. 4° [Prepared under grant NSG-18-59 by California Institute of Technology, Pasadena, Calif. Issued by originator as report SM 67-7.]  $\Phi$  Paper, \$3.00.

## NASA EP (series).

- 17948 46. Medical benefits from space research. [1967.] cover title, [16] p. il. 4° \* Paper, 20c.  $\bullet$  Item 830-G NAS 1.19:46

## NASA facts. (Educational publication of NASA's Office of Public Affairs, Educational Programs Division.) $\bullet$ Item 830-H

NAS 1.20: v. (no.)/no. (nos.)

- 17949 v. 2, no. 8. Manned space flight: Projects Mercury and Gemini. [1967.] 12 p. il. 4° (NF-9.) \* Paper, 15c.
- 17950 v. 4, no. 6. Surveyor. [1967.] 12 p. il. 4° (NF-35.) \* Paper, 15c.

## NASA SP (series).

NAS 1.21:(nos.)

- 17951 143. Oxide dispersion strengthened alloys [with list of references]; prepared for NASA Research Advisory Committee on Materials by Nicholas J. Grant, Howard J. Siegel, and Robert W. Hall. 1967. v+25 p. il. (Scientific and Technical Information Division, Office of Technology Utilization.) \* Paper, 15c.  $\bullet$  Item 830-I L.C. card 67-60087
- 17952 157. 1967 summer study of lunar science and exploration, directed by Wilmot N. Hess, held at University of California-Santa Cruz, Santa Cruz, Calif., July 31-Aug. 13, 1967 under auspices of Manned Spacecraft Center, NASA. 1967. vi+398 p. il. map, 4° (Scientific and Technical Information Division, Office of Technology Utilization.)  $\Phi$  Paper, \$3.00. L.C. card 67-62926
- 17953 5027. Thermal insulation systems, survey [with list of references]; by Peter E. Glaser [and others]. 1967. vi+148 p. il. ([Technology utilization; Technology Utilization Division, Office of Technology Utilization.] [Prepared under NASA contract by Arthur D. Little, Inc., Cambridge, Mass.] \* Paper, 60c.  $\bullet$  Item 830-I L.C. card 67-60053

## NASA tech briefs. [Issued by Technology Utilization Division to summarize specific technical innovations derived from the space program. Issued with perforations.] $\Phi$ Paper, each 15c. NAS 1.29:(nos.)

- 17954 67-10271. Pipe joints reinforced in place with fitted aluminum sleeves. Aug. 1967. [2] p. il. 4° ([MSC-11103.]) [Corrected copy.]
- 17955 67-10282. Materials data handbook, inconel alloy 718. Aug. 1967. 1 p. 4° (MFS-2348.)
- 17956 67-10301. Materials data handbook, aluminum alloy 7075. Aug. 1967. 1 p. 4° (MFS-2349.)
- 17957 67-10314. SiC/Si diode trigger circuit provides automatic range switching for log amplifier. Aug. 1967. [2] p. il. 4° ([MFS-1897.])
- 17958 67-10328. Computer optimization program finds values for several independent variables that minimize dependent variable. Sept. 1967. 1 p. 4° (MFS-13030.)
- 17959 67-10329. Computer program resolves radiative, conductive, and convective heat transfer problems for variety of geometries. Sept. 1967. 1 p. 4° (MFS-1910.)
- 17960 67-10330. Improved computer program for elastic analysis of highly redundant structural configurations. Sept. 1967. 1 p. 4° (MFS-13087.)
- 17961 67-10334. Field effect transistors improve buffer amplifier. Oct. 1967. [2] p. il. 4° ([M-FS-916.])
- 17962 67-10339. Vibration analysis utilizing Mossbauer effect. Sept. 1967. [2] p. il. 4° ([MFS-11974.])
- 17963 67-10341. Development of technology for hot-drape forming of large torus sections. Oct. 1967. [2] p. 4° ([MFS-12141.])
- 17964 67-10342. Simplified technique demonstrates magnetic domain switching. Oct. 1967. [2] p. il. 4° ([MFS-13153.])

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 17965 67-10353. Ultrasonic wrench produces leaktight connections. Oct. 1967. [2] p. il. 4° ([MFS-12561.])
- 17966 67-10354. Cut-through tester accurately measures insulation failure rates. Oct. 1967. [2] p. il. 4° ([MFS-12506.])
- 17967 67-10356. Repairable, high-density microelectronic module provides effective heat sink. Oct. 1967. [2] p. il. 4° ([MFS-13075.])
- 17968 67-10357. Digital-to-analog converter operates from low level inputs. Oct. 1967. [2] p. il. 4° ([JPL-907.])
- 17969 67-10358. Steel test panel helps control additives in pyrophosphate copper plating. Oct. 1967. [2] p. il. 4° ([LEW-10101.])
- 17970 67-10359. Test device prevents weld joint damage by eliminating axial pln forces on unpotted modules. Oct. 1967. [2] p. il. 4° ([LEW-10201.])
- 17971 67-10360. Pressure levels and pulsation frequencies can be varied on high pressure/frequency testing device. Oct. 1967. [2] p. il. 4° ([LEW-10205.])
- 17972 67-10361. Pocket-size manual tape reader device aids computer tape checking. Oct. 1967. [2] p. il. 4° ([KSC-10058.])
- 17973 67-10362. Movable rf probe eliminates need for calibration in plasma accelerators. Oct. 1967. [2] p. il. 4° ([LEW-10127.])
- 17974 67-10363. System automatically provides dynamic launch decision criteria. Oct. 1967. 1 p. 4° (MFS-13063.)
- 17975 67-10364. Resilient bearing supports are gas controlled. Oct. 1967. [2] p. il. 4° ([LEW-10109.])
- 17976 67-10365. Magnesium-lithium alloys developed for low temperature use. Oct. 1967. 1 p. 4° (MFS-1541.)
- 17977 67-10366. Study made of dielectric properties of promising materials for cryogenic capacitors. Oct. 1967. [2] p. 4° ([MFS-13620.])
- 17978 67-10367. Transducer measures embedment stresses in electronic modules. Oct. 1967. [2] p. il. 4° ([MFS-13486.])
- 17979 67-10368. Signal generator converts direct current to multiphase supplies. Oct. 1967. 1 p. 4° (MSC-11043.)
- 17980 67-10369. Multiple meter monitoring circuits served by single alarm. Oct. 1967. [2] p. il. 4° ([MSC-10984.])
- 17981 67-10370. Mechanical properties of wire insulation automatically determined. Oct. 1967. 1 p. 4° (MSC-10983.)
- 17982 67-10371. Measuring coplanarity of surfaces. Oct. 1967. 1 p. 4° (MSC-12044.)
- 17983 67-10372. Electron beam parallel X-ray generator. Oct. 1967. [2] p. il. 4° ([MSC-11022.])
- 17984 67-10373. Eccentric drive mechanism is adjustable during operation. Oct. 1967. [2] p. il. 4° ([MFS-2576.])
- 17985 67-10374. Handbooks describe eddy current techniques used in nondestructive testing of metal parts and components. Oct. 1967. 1 p. 4° (MFS-13172.)
- 17986 67-10376. Circuit automatically calibrates flowmeter against liquid-level gage reference. Oct. 1967. [2] p. 4° ([MFS-2194.])
- 17987 67-10377. Stabilizing stainless steel components for cryogenic service. Oct. 1967. 1 p. 4° (MFS-13127.)
- 17988 67-10378. Flowmeter determines mix ratio for viscous adhesives. Oct. 1967. [2] p. il. 4° ([MFS-2308.])
- 17989 67-10379. Machine tests slow-speed sliding friction in high vacuum. Oct. 1967. [2] p. il. 4° ([MFS-12341.])
- 17990 67-10380. Single-source mechanical loading system produces biaxial stresses in cylinders. Oct. 1967. 1 p. 4° (MFS-12530.)
- 17991 67-10382. Use of color-coded sleeve shutters accelerates oscillograph channel selection. Oct. 1967. 1 p. il. 4° (KSC-10092.)
- 17992 67-10384. Crack growth measured on flat and curved surfaces at cryogenic temperatures. Oct. 1967. [2] p. il. 4° ([LEW-389.])
- 17993 67-10385. Welding torch and wire feed manipulator. Oct. 1967. [2] p. il. 4° ([MFS-13102.])
- 17994 67-10386. Continuous wave detector has wide frequency range. Oct. 1967. 1 p. 4° (MFS-1849.)
- 17995 67-10388. Modified blackbody device emits high-density radiation. Oct. 1967. 1 p. 4° (MFS-12744.)
- 17996 67-10389. Rugged switch responds to minute pressure differentials. Oct. 1967. [2] p. il. 4° ([MFS-12704.])
- 17997 67-10390. High power dc/dc and dc/ac electrical power conversion techniques developed. Oct. 1967. [2] p. il. 4° ([MFS-13227.])
- 17998 67-10391. Method prevents secondary radiation in radiographic inspection. Oct. 1967. 1 p. il. 4° (MFS-13383.)
- 17999 67-10393. Study made to establish parameters and limitations of explosive welding. Oct. 1967. [2] p. 4° ([MFS-13006.])
- 18000 67-10394. Experiments to investigate particulate materials in reduced gravity fields. Oct. 1967. [2] p. 4° ([MFS-13308.])
- 18001 67-10396. Multiplexer uses insulated gate-field effect transistors. Oct. 1967. 1 p. 4° (MFS-13096.)
- 18002 67-10402. Automatic telemetry checkout system. Nov. 1967. 1 p. 4° (MFS-12580.)
- 18003 67-10403. Wear studies made of slip rings and gas bearing components. Nov. 1967. 1 p. 4° (MFS-12682.)
- 18004 67-10404. Control apparatus for spectral energy source. Nov. 1967. [2] p. il. 4° ([Lewis-391.])
- 18005 67-10410. Current steering commutator offers versatility. Oct. 1967. [2] p. il. 4° ([JPL-812.])

♣For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 47

# GOVERNMENT PUBLICATIONS

## NASA tech briefs—Continued

- 18006 67-10413. Study of hydrogen slush-hydrogen gel utilization. Oct. 1967. 1 p. 4° (MFS-13068.)  
 18007 67-10420. Concept for cryogenic liquid reclamation system. Nov. 1967. [2] p. il. 4° ([NPO-10322.]

## NASA technical note TN (series).

NAS 1.14: D-(nos.)

- 18008 D-4108. Generalized decomposition theory of finite sequential machines [with list of references]; by H. Allen Curtis. Oct. 1967. cover title, [1]+46 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18009 D-4126. Technical history of environmental control system for Project Mercury [with list of references]; by Frank H. Samonski, jr. Oct. 1967. cover title, viii+110 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18010 D-4128. Studies of airframe-propulsion-system integration for Mach 6 cruise vehicles [with list of references]; by Frank S. Kirkham [and others]. Oct. 1967. cover title, [1]+21 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18011 D-4129. Transition fixing for hypersonic flow [with list of references]; by James R. Sterrett [and others]. Oct. 1967. cover title, [1]+20 p. il. 4° [Presented at classified Conference on Hypersonic Aircraft Technology, Ames Research Center, May 16-18, 1967, and published in NASA SP-148.]  $\Phi$  Paper, \$3.00.  
 18012 D-4137. Determination of tungsten resonance absorption integrals by activation [with list of references]; by Clarence R. Pierce and Donald F. Shook. Oct. 1967. cover title, [1]+32 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18013 D-4139. Static longitudinal aerodynamic characteristics of hammerhead-shaped Little Joe II-lunar module model at Mach 0.30 to 1.20 [with list of references]; by Arvo A. Luoma and Charles D. Harris. Oct. 1967. cover title, [1]+153 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18014 D-4145. Description of 4 fast slitless spectrographs [with list of references]; by Gale A. Harvey. Oct. 1967. cover title, [1]+38 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18015 D-4147. Vapor-pressure data extrapolated to 1000 atmospheres ( $1.01 \times 10^8 \text{ N/m}^2$ ) for 13 refractory materials with low thermal absorption cross sections [with list of references]; by Charles C. Masser. Oct. 1967. cover title, [1]+32 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18016 D-4148. Performance potential of radiant-heat-transfer liquid-core nuclear rocket engine [with list of references]; by Robert G. Ragsdale. Oct. 1967. cover title, [1]+25 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18017 D-4167. Round-trip trajectories to moons of Jupiter [with list of references]; by Roger W. Luidens and John Edgar. Oct. 1967. cover title, [1]+40 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18018 D-4168. Hall coefficient of tantalum carbide as function of carbon content and temperature [with list of references]; by Gilbert J. Santoro and R. T. Dolloff. Oct. 1967. cover title, [1]+8 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18019 D-4171. Normal gravity self-pressurization of 9-inch- (23 cm) diameter spherical liquid hydrogen tankage [with list of references]; by John C. Aydelott. Oct. 1967. cover title, [1]+47 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18020 D-4183. Body motions and angles of attack during Project Fire flight II reentry [with list of references]; by William I. Scallion and John H. Lewis, jr. Oct. 1967. cover title, [1]+81 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18021 D-4188. Experimental investigation of boundary-layer transition on cooled 7.5 total-angle cone at Mach 10 [with list of references]; by Phillip E. Everhart and H. Harris Hamilton. Oct. 1967. cover title, [1]+34 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18022 D-4189. Frequency response of forced-flow single-tube boiler with inserts [with list of references]; by Jack H. Goodykoontz, Grady H. Stevens, and Eugene A. Krejsa. Oct. 1967. cover title, [1]+37 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18023 D-4190. Heterodyne operation of avalanche photodiodes [with list of references]; by D. E. Sawyer. Oct. 1967. cover title, [1]+10 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18024 D-4191. Studies of optimum body shapes at hypersonic speeds [with list of references]; by Louis S. Stivers, jr., and Bernard Spencer, jr. Oct. 1967. cover title, [1]+15 p. il. 4° [Presented at NASA Conference on Hypersonic Aircraft Technology, Ames Research Center, May 16-18, 1967.]  $\Phi$  Paper, \$3.00.  
 18025 D-4192. Experimental investigation of effect of model scale on structural-joint damping [with list of references]; by David G. Stephens, Brantley R. Hanks, and Maurice A. Scavullo. Oct. 1967. cover title, [1]+23 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18026 D-4193. Turbulent-boundary layer characteristics of pointed slender bodies of revolution at supersonic speeds [with list of references]; by Jerry M. Allen and William J. Monta. Oct. 1967. cover title, [1]+107 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18027 D-4194. Effects of dielectric covers over cross slots in rectangular waveguide [with list of references]; by Marion C. Bailey. Oct. 1967. cover title, [1]+45 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18028 D-4197. Input admittance of rectangular waveguide-fed aperture antenna radiating into inhomogeneous lossy dielectric slab [with list of references]; by Calvin T. Swift. Oct. 1967. cover title, 1+30 p. il. 4°  $\Phi$  Paper, \$3.00.  
 18029 D-4198. Dynamic flight behavior of ballasted sphere at Mach numbers from 0.4 to 14.5 [with list of references]; by Barbara J. Short. Oct. 1967. cover title, [1]+33 p. il. 4°  $\Phi$  Paper, \$3.00.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 18030 D-4200. Monte Carlo program for calculation of Doppler coefficients [with list references]; by Robert E. Sullivan. Oct. 1967. cover title, [1]+43 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18031 D-4201. Investigation of water rejection from hydrogen-oxygen fuel cell to hydrogen stream [with list of references]; by Paul R. Prokopius and Norman H. Hagedorn. Oct. 1967. cover title, [1]+24 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18032 D-4202. Mechanism of deuteron breakup by 42-Mev alpha particles [with list of references]; by Robert E. Warner and Robert W. Bercaw. Oct. 1967. cover title, [1]+15 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18033 D-4204. Some dynamic characteristics of electron-bombardment ion thruster [with list of references]; by Eugene V. Pawlick, Shigeo Nakanishi, and Harvey R. Algeri. Oct. 1967. cover title, [1]+51 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18034 D-4205. Experimental investigation of variable-length constant-velocity traveling magnetic wave plasma accelerator [with list of references]; by Raymond W. Palmer and Robert E. Jones. Oct. 1967. cover title, [1]+20 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18035 D-4206. Radio-frequency induction heating of low-pressure plasmas [with list of references]; by Ronald J. Sovie and George K. Seikel. Oct. 1967. cover title, [1]+60 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18036 D-4207. Design and analysis of rate augmented digital-to-analog converter [with list of references]; by Sheldon Kopelson. Nov. 1967. cover title, [1]+32 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18037 D-4208. Small volume, ultrahigh vacuum system for ionization gage studies [with list of references]; by R. A. Outlaw and James M. Bradford, jr. Nov. 1967. cover title, [1]+17 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18038 D-4209. Preliminary evaluation of XB-70 airplane encounters with high-altitude turbulence [with list of references]; by Eldon E. Kordes and Betty J. Love. Oct. 1967. cover title, [1]+21 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18039 D-4211. Aerodynamic characteristics of several cranked leading-edge wing-body combinations at Mach numbers from 0.4 to 2.94 [with list of references]; by Edward J. Hopkins, Raymond M. Hicks, and Ralph L. Carmichael. Oct. 1967. cover title, [1]+90 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18040 D-4212. Chemical impurity data on selected artificial graphites with comments on catalytic effect of impurities on oxidation rate [with list of references]; by Howard G. Maahs and David R. Schryer. Oct. 1967. cover title, [1]+27 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18041 D-4214. Some effects of Mach number and geometry on sonic boom [with list of references]; by Raymond M. Hicks, Joel P. Mendoza, and Lynn W. Hunton. Oct. 1967. cover title, [1]+10 p. il. 4° [Presented at NASA Conference on Hypersonic Aircraft Technology, Ames Research Center, May 16-18, 1967.]  $\Phi$  Paper, \$3.00.
- 18042 D-4215. Dynamic model investigation of touchdown stability of lunar-landing vehicles [with list of references]; by Robert W. Herr and H. Wayne Leonard. Oct. 1967. cover title, [1]+22 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18043 D-4216. Procedure for computing motion of lunar-landing vehicle during landing impact [with list of references]; by William C. Walton, jr., and Barbara J. Durling. Oct. 1967. cover title, iv+70 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18044 D-4217. Development of respiration-rate transducers for aircraft environments [with list of references]; by Robert T. McDonald and James Roman. Oct. 1967. cover title, [1]+16 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18045 D-4218. Longitudinal aerodynamic characteristics in ground effect of large-scale, V/STOL model with 4 tilting ducted fans arranged in dual tandem configuration [with one reference]; by Demo J. Giulianetti, James C. Biggers, and Ralph L. Maki. Oct. 1967. cover title, [1]+29 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18046 D-4219. Decoupling in design and synthesis of multivariable control systems [with list of references]; by Peter L. Falb and William A. Wolovich. Oct. 1967. cover title, [1]+30 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18047 D-4220. Computerized data-reduction technique for Langmuir probe analysis of electron temperature variations in exhaust of magneto-plasmodynamic arc [with list of references]; by David R. Brooks and James M. Hoell, jr. Nov. 1967. cover title, [1]+22 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18048 D-4221. Vibrations of hollow elastic cylinder bonded to thin casing of different material [with list of references]; by Vasant S. Kelkar. Nov. 1967. cover title, [1]+26 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18049 D-4224. Present and future state of the art in guidance computer memories [with list of references]; by Robert C. Ricci. Nov. 1967. cover title, [1]+16 p. 4°  $\Phi$  Paper, \$3.00.
- 18050 D-4225. Absorption coefficients of  $O_2$  at oxygen windows [with list of references]; by Shardanand. Nov. 1967. cover title, [1]+6 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18051 D-4226. Stereographic representation of Knoop hardness anisotropy [with list of references]; by M. Garfinkle and E. G. Garlick. Nov. 1967. cover title, [1]+12 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18052 D-4227. Experimental steady-state performance of multitube, centrally finned, potassium condensing radiator [with list of references]; by Orlando A. Gutierrez, Loren W. Acker, and Nick J. Sekas. Nov. 1967. cover title, iv+121 p. il. 4°  $\Phi$  Paper, \$3.00.
- 18053 D-4231. Static, subsonic, and supersonic oxidation of JT graphite composites [with list of references]; by John D. Buckley. Oct. 1967. cover title, [1]+40 p. il. 4°  $\Phi$  Paper, \$3.00.



# GOVERNMENT PUBLICATIONS

## NASA technical report R (series).

NAS 1.12:(nos.)

- 18054 269. Approximate solution of equations of motion for arbitrary rotating spacecraft [with list of references]; by Peter R. Kurzhals, Oct. 1967. cover title, iv+151 p. il. 4° Φ Paper, \$3.00.
- 18055 272. Radiometric boresighting by sequential lobing [with list of references]; by George G. Haronles and Wilfred E. Brown III, Oct. 1967. cover title, [1]+25 p. il. 4° Φ Paper, \$3.00.
- 18056 274. Experimentally determined local flow properties and drag coefficients for family of blunt bodies at Mach numbers from 2.49 to 4.63 [with list of references]; by Robert L. Stallings, jr. Oct. 1967. cover title, [1]+35 p. il. 4° Φ Paper, \$3.00.

## NASA technical translation TT (series).

- 18057 F-476. Quantum effects in information transmission systems [with list of references]; by I. A. Deryugin and V. N. Kurashov, Oct. 1967. cover title, [1]+25 p. il. 4° [From Izdatel'stvo Naukova Dumka, Kiev, 1966.] Φ Paper, \$3.00. NAS 1.13/2: F-476
- 18058 National Aeronautics and Space Administration procurement regulation, supp. 3, Property administration, Oct. 1967. cover title, iii+36 p. 4° (NPRS 3.) [Issued in looseleaf form. Supplements 1 and 2 reserved.] \* Paper, 35c. • Item 830-N NAS 1.6/2: 964/supp.3
- 18059 Speaking of space & aeronautics. ([Office of Public Affairs.]) [Current, significant material relating to U.S. program to provide information for educational community and general public.] v. 4, no. 1. From Rnymmede to Ganymede; by James E. Webb. [July 1967.] cover title, 15 p. narrow 8° [Address delivered at Celebration of Prelude to Independence, Williamsburg, Va., May 27, 1967.] † NAS 1.32: 4/1

## NATIONAL ARCHIVES AND RECORDS SERVICE, General Services Administration, Washington, DC 20408

### National Archives microfilm publications: Pamphlet accompanying microcopy. (National Archives.) † GS 4.20:(nos.)

- 18060 281. Despatches from United States consuls in Matamoros, 1826-1906; [prepared by Frank Cadisch]. 1967. [1]+5 p.
- 18061 345. Union provost marshals' file of papers relating to individual civilians. 1967. [1]+6 p.
- 18062 632. Records of Department of State relating to internal affairs of Nicaragua, 1910-29; [prepared by James E. Primas]. 1967. [1]+10 p.
- 18063 644. Records of Department of State relating to internal affairs of Bolivia, 1910-29; [prepared by James E. Primas]. 1967. [1]+8 p.
- 18064 647. Records of Department of State relating to internal affairs of Honduras, 1910-29; [prepared by Ralph E. Huss]. 1967. [1]+14 p.
- 18065 648. Records of Department of State relating to political relations between United States and Honduras, 1910-29; [prepared by Thomas A. Devan and James E. Primas]. 1967. [1]+5 p.
- 18066 670. Records of Department of State relating to political relations between United States and Costa Rica, 1910-29; [prepared by James E. Primas]. 1967. [1]+5 p.
- 18067 672. Records of Department of State relating to internal affairs of Central America, 1910-29; [prepared by James E. Primas]. 1967. [1]+5 p.
- 18068 676. Records of Department of State relating to political relations between United States and Belgium, 1910-29; [prepared by Ralph E. Huss]. 1967. [1]+4 p.
- 18069 677. Records of Department of State relating to Belgium and other States, 1910-29; [prepared by Ralph E. Huss]. 1967. [1]+5 p.
- 18070 678. Compiled service records of volunteer soldiers who served during War of 1812 in organizations from Territory of Mississippi. 1967. 4 p.
- 18071 681. Records relating to appointment of Federal judges, attorneys, and marshals for Territory and State of Idaho, 1861-99; [prepared by Norman D. Moore]. 1967. 8 p.
- 18072 685. Records relating to enrollment of Eastern Cherokee by Guion Miller, 1908-10; [prepared by Kathleen E. Riley]. 1967. 4 p.
- 18073 692. Compiled service records of volunteer Union soldiers who served in organizations from Territory of Utah. 1967. [1]+2 p.

### Preliminary inventories. †(Limited distribution), Publications Sales Branch, National Archives and Records Service, Washington, D.C. 20408

- 18074 169. Preliminary inventory of Treasury Department collection of Confederate records (record group 365); compiled by Carmelita S. Ryan, 1967. ix+65 p. 4° ([National Archives publication 683-3.]) L.C. card A 67-740 GS 4.10: 169

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



NATIONAL BUREAU OF STANDARDS, Commerce Dept.  
Gaithersburg, MD 20760

Building science series.

- 18075 10. Field burnout tests of apartment dwelling units [with list of references; by] D. Gross, Sept. 29, 1967. [2]+23 p. il. 4° (Building Research Division, Institute for Applied Technology.) \* Paper, 25c. ● Item 241-A  
C 13.29/2:10

Miscellaneous publication.

- 18076 293. See below, 1967 technical highlights of National Bureau of Standards, annual report, fiscal year 1967.

National standard reference data series, NSRDS-NBS.

- 18077 11. Tables of molecular vibrational frequencies, pt. 2 [with list of references; by] Takehiko Shimanouchi, Oct. 1967. iv+38 p. 4° (Category 3, Atomic and molecular properties.) \* Paper, 30c. ● Item 248-B  
C 13.48:11

- 18078 Radio Standards Laboratory. [June 1967.] [6] p. il. narrow 8° †  
C 13.2: R 11/2

- 18079 1967 technical highlights of National Bureau of Standards, annual report, fiscal year 1967. Nov. 1967. iv+162 p. il. (Miscellaneous publication 293.) [Title on cover is: 1967 technical highlights of National Bureau of Standards, annual report for Institute of Basic Standards, Institute for Materials Research, Institute for Applied Technology.] \* Paper, 55c.  
● Item 238 & 247  
L.C. card 6-23979  
C 13.1: 967

Technical notes. ● Item 249-A

C 13.46:(nos.)

- 18080 423. Electrochemical Analysis Section: Summary of activities, July 1966-June 1967 [with bibliographies]; edited by Roger G. Bates, Oct. 1967. x+77 p. il. 4° [3d annual report on progress of Electrochemical Analysis Section, Analytical Chemistry Division.] \* Paper, 50c.
- 18081 427. Organic chemistry: Air pollution studies, Characterization of chemical structures, Synthesis of research materials, Novel research materials, Isotopic methods for analysis of carbohydrates, Occurrence, preparation, and properties of naturally occurring monosaccharides, Including 6-deoxy sugars, Standard reference materials, organic, July 1966-June 1967 [with list of references]; edited by Robert Schaffer, Oct. 1967. x+74 p. il. 4° (Organic Chemistry Section, Analytical Chemistry Division, Institute for Materials Research.) \* Paper, 45c.
- 18082 431. Second breakdown in semiconductor devices, bibliography; [by] Harry A. Sebaft. Oct. 1967. [3]+40 p. 4° (Electronic Instrumentation Division, Institute for Applied Technology.) \* Paper, 30c.  
L.C. card 67-62945
- 18083 434. Life cycling test on several strain gage pressure transducers [with list of references; by] Paul S. Lederer, Oct. 1967. iii+12 p. 9 p. of pl. 4° (Electronic Instrumentation Division, Institute for Applied Technology.) \* Paper, 20c.

NATIONAL COLLECTION OF FINE ARTS, Smithsonian  
Institution, Washington, DC 20560

- 18084 George Caleb Bingham 1811-79 catalog [with selected bibliography]. [1967.] vi+99 p. il. 4° ([Smithsonian publication 4725.]) [Exhibition National Collection of Fine Arts, Smithsonian Institution, Oct. 19, 1967-Jan. 1, 1968, Cleveland Museum of Art, Cleveland, Ohio. Jan. 24-Mar. 10, 1968, Art Galleries, University of California at Los Angeles, Los Angeles, Calif., Apr. 7-May 19, 1968. Catalog of paintings and drawings and chronology derived from forthcoming books by E. Maurice Bloch: George Caleb Bingham evolution of an artist and companion, Catalogue raisonné, with kind permission of publisher, University of California Press.] † (Price upon application). ● Item 916  
L.C. card 67-62923  
SI 6.2: B 51

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## NATIONAL COUNCIL ON MARINE RESOURCES AND ENGINEERING DEVELOPMENT, Executive Office of the President, Executive Office Building, Washington, DC 20500

NOTE.—The National Council on Marine Resources and Engineering Development was established as an agency in the Executive Office of the President by Public law 89-454, June 17, 1966.

- 18085 United States activities in spacecraft oceanography; prepared by National Aeronautics and Space Administration and Naval Oceanographic Office, with assistance of Bureau of Commercial Fisheries and Environmental Science Services Administration. Oct. 1, 1967. [5]+44 p. il. 4° [Some illustrations are colored.] \* Paper, 65c. ● Item 1070-H  
L.C. card 67-62880 PrEx 12.2: Sp 1

## NATIONAL HIGHWAY SAFETY BUREAU, Transportation Dept. Washington, DC 20591

NOTE.—The National Highway Safety Bureau was established under the Federal Highway Administration of the Transportation Department by Public law 89-670, approved Oct. 15, 1966.

- 18086 Motor vehicle safety defect recall campaigns reported to Department of Transportation by domestic and foreign vehicle manufacturers, Sept. 9, 1966-Sept. 9, 1967. [1967.] vi+13 p. il. 4° \* Paper, 20c. ● Item 982-D-1  
TD 2.202: M 85
- 18087 National Driver Register [State driver records exchange service]. Sept. 1967. [4]+24 p. il. \* Paper, 25c. ● Item 982-D-1  
L.C. card 67-62914 TD 2.202: D 83

## NATIONAL LABOR RELATIONS BOARD Washington, DC 20570

- 18088 Paradoxes in labor-management relations; by Bernard Cushman, Special Assistant to General Counsel, National Labor Relations Board, before Amalgamated Transit Union Convention, New Orleans, La., Oct. 10, 1967. 1967. [1]+10 p. 4° (R-1091.) †  
LR 1.7: C 95

## NATIONAL MUSEUM, Smithsonian Institution Washington, DC 20560

Proceedings of National Museum.

- 18089 3624. Composition of Allegan, Bur-Ghelual, and Cynthiana meteorites [with list of literature cited]; by Brian Mason and A. D. Maynes. 1967. v. 124, cover title, 12 p. il. † ● Item 922  
SI 3.6: 124/3624

## NATIONAL PARK SERVICE, Interior Dept. Washington, DC 20242

- 18090 Agate Fossil Beds National Monument, Nebr. [1967.] [10] p. il. narrow 8°  
\* Paper, 10c. ● Item 650 I 29.21: Ag 1/967
- 18091 Hubbell Trading Post National Historic Site, Ariz. [1967.] [10] p. il. narrow 8° \* Paper, 10c. ● Item 650  
I 29.21: H 86/967

## NATIONAL TRANSPORTATION SAFETY BOARD, Transportation Dept. Washington, DC 20590

NOTE.—The National Transportation Safety Board was established in the Transportation Department by Public law 89-670, approved Oct. 15, 1966.

- 18092 Opening remarks of Joseph J. O'Connell, jr., chairman, National Transportation Board, before panel Safety in manned operations, 4th annual meeting, American Institute of Aeronautics and Astronautics, Anaheim, Calif., Oct. 23, 1967. [1967.] [1]+5 p. 4° †  
TD 1.110: Oc 5/3
- 18093 Remarks by Joseph J. O'Connell, jr., Chairman, National Transportation Safety Board before American Trucking Associations, Chicago, Ill., Oct. 18, 1967. [1967.] [1]+11 p. 4° †  
TD 1.110: Oc 5/2

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

# DECEMBER 1967

- 18094 Remarks by Louis M. Thayer, member, National Transportation Safety Board, prepared for delivery before National Safety Congress, Chicago, Ill., Oct. 25, 1967. [1967.] 11 p. 4° † TD 1.110: T 33

## NAVAL FACILITIES ENGINEERING COMMAND, Defense Dept. Washington, DC 20360

Design manual DM (series). [Issued in looseleaf form.]

- 18095 4. Electrical engineering [with list of criteria sources]. July 1967. xii + [147] p. il. 4° [Cancels and supersedes Feb. 1962 edition and all changes issued.] \* Paper, \$1.00. • Item 418-A D 209.14/2: 4/2

## NAVAL OCEANOGRAPHIC OFFICE, Defense Dept. Washington, DC 20390

Publications. • Item 378 (Rev. 1957) D 203.22: (nos.)

- 18096 50. Change 11, Aug. 26, 1967, loose leaf change pages for correcting Sailing directions for southwest coast of Africa, 4th edition, 1951. [1967.] [140] p. il. 4° [Formerly no. 105. Includes list of effective pages.] † Paper, 35c.
- 18097 52. Change 10, July 22, 1967, loose leaf change pages for correcting Sailing directions for Mediterranean, v. 1, 4th edition, 1952. [1967.] [190] p. il. 4° [Formerly no. 151. Includes list of effective pages.] † Paper, 35c.
- 18098 78. Change 10, Aug. 5, 1967, loose leaf change pages for correcting Sailing directions for New Zealand, 3d edition, 1952. [1967.] [280] p. il. 4° [Formerly no. 171. Includes list of effective pages.] † Paper, 35c.
- 18099 111B. Change 15, Sept. 9, 1967, List of lights and fog signals, west coasts of North and South America (excluding continental U.S.A. and Alaska), Hawaiian Islands, Australia, Tasmania, New Zealand and islands of North and South Pacific Oceans. 1967. [126] p. 4° [Includes list of effective pages and Notice to Mariners 36, 1967. Issued in looseleaf form.] † Paper, 50c.
- 18100 113. Change 15, Aug. 26, 1967, List of lights and fog signals, west coasts of Europe and Africa, Mediterranean Sea, Black Sea, and Azovskoye More (Sea of Azov). 1967. [142] p. 4° [Includes list of effective pages and Notice to Mariners 34, 1967. Issued in looseleaf form.] † Paper, 50c.
- 18101 116. Change 15, list of lights and fog signals; Baltic Sea with Kattegat, belts and sound and Gulf of Bothnia; Sept. 23, 1967, 1967. [99] p. 4° [Includes list of effective pages and Notice to Mariners 38, 1967. Issued in looseleaf form.] † Paper, 50c.
- 18102 117A. Change 15, Aug. 26, 1967, radio navigational aids, Atlantic and Mediterranean area. 1967. [121] p. 4° [Includes list of effective pages and Notice to mariners 34, 1967. Issued in looseleaf form.] † Paper, 50c.

## NAVAL OPERATIONS OFFICE, Defense Dept. Washington, DC 20390

- 18103 Flags, pennants and customs, Change 1. July 24, 1967. [62] p. il. 4° (DNC 27(A); Naval Communications Command.) [Includes list of effective pages. Issued in looseleaf form.] † • Item 400 D 207.6: F 59/ch.1

## NAVAL PERSONNEL BUREAU, Defense Dept. Washington, DC 20390

- 18104 Alcohol, fun or folly?, by Lindsay R. Curtis; illustrated by Len Borozinski. Revised edition 1966. [1967.] 70 p. il. ([NAVPERS 15228; General Military Training and Support Division.]) [Copyright 1966, produced for government use under copyright license contract NOD-9933.] † • Item 403 L.C. card 65-27483 D 208.2: A1 1
- 18105 Aviation structural mechanic H 3 & 2 [with reading list; prepared by Navy Training Publications Center, Memphis, Tenn.]. [1967 edition.] [1967.] cover title, iv + 391 p. il. 4° (Navy training course; NAVPERS 10310-A.) [Some illustrations are colored.] † • Item 404 L.C. card 67-62881 D 208.11: Av 5/29/967
- 18106 Catalog of programmed instructional material. Aug. 1967. cover title, iv + [404] p. 4° (NAVPERS 93826.) [Issued with perforations.] \* Paper, \$2.00. • Item 401-A D 208.15: P 94/2

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
•Sent to Depository Libraries

Page 53

# GOVERNMENT PUBLICATIONS

- 18107 Manual of advancement in rate or rating, Change 2 [with list of References pertaining to advancement of enlisted personnel]. Oct. 1, 1967. [98] p. 4° (NAVPERS 15989.) [Issued in looseleaf form.] † • Item 403-A D 208.6/3 : R 18/ch.2
- 18108 Manual of Navy officer classification, Change 4. Aug. 22, 1967. [227] p. 4° (NAVPERS 15839A). [Issued in looseleaf form.] † • Item 403-A D 208.6/3 : C 56/2/ch.4

## NAVAL RESEARCH OFFICE, Defense Dept. Washington, DC 20390

Naval Training Device Center, Orlando, Fla.: Technical report NAV-TRADEVEN (series).

- 18109 1327-4. Team training [with list of references; by] George E. Briggs, William A. Johnston. June 1967. cover title, v+79+[6] p. ll. 4° (Human Performance Center, Ohio State University, Columbus, Ohio; contract N61339-1327.) [Text on pa. 2 of cover.] † D 210.14 : 1327-4

NRL reports. (Naval Research Laboratory.) D 210.8 : (nos.)

- 18110 6496. Effect of adsorbed water upon spreading of organic liquids on soda-lime glass [with list of references; by] Elaine G. Shafrin and W. A. Zisman. Mar. 24, 1967. cover title, ii+22+[4] p. ll. 4° ([NRL problem C02-21, ONR project P0-6-0035, subproject RR 001-02-01.]) † Paper, \$3.00 (AD 651056).
- 18111 6529. Prediction of absolute entropies from gas chromatographic retention data [with list of references; by] Frederick W. Williams and Homer W. Carhart. Mar. 22, 1967. cover title, ii+14+[3] p. ll. 4° ([NRL problem C01-03, project RR 010-01-44-5850.]) † Paper, \$3.00 (AD 651036).
- 18112 6562. Refractometric sensing of H<sub>2</sub>SO<sub>4</sub> specific gravity in lead-acid cell operation [with list of references; by] Jeanne Burbank. July 5, 1967. cover title, ii+12 p. +[2] leaves. ll. 4° (NRL problem C05-14, projects SF 013-06-06-4366 and RR 001-01-43-4755.) † Paper, \$3.00 (AD 658747).
- 18113 6563. Surface effects in photodegradation of polymer films [with list of references; by] T. R. Price and R. B. Fox. July 5, 1967. [1]+ii+16+[4] p. ll. 4° ([NRL problem C04-04, projects RR 001-02-43-4801 and SF 020-04-06-1201.]) † Paper, \$3.00 (AD 657608).
- 18114 6572. Randle Cliff radar digital range-measuring instrument; [by] P. L. Watkins and F. D. Clarke. July 19, 1967. cover title, iv+32+[4] p. ll. 4° ([NRL problem R02-05, project RF 001-02-41-4001.]) † Paper, \$3.00 (AD 657306).

- 18115 Training device developments; [Charles T. Bourne, editor]. (NAVSO P-1300; Naval Training Device Center, Orlando, Fla.) [Bimonthly.] † D 210.14/4 : (nos.)  
no. 37— July 1967—

## OUTDOOR RECREATION BUREAU, Interior Dept. Washington, DC 20240

- 18116 Northern New England vacation home study, 1966. [1967.] iv+12 p. ll. 4° † • Item 657-B-1 I 66.2 : V 13

## PATENT OFFICE, Commerce Dept. Washington, DC 20231

Classification definitions. [Issued with perforations.] • Item 252  
C 213/2(nos.)

- 18117 class 5. Beds; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [2]+3+35 p. 4° [Original classification by E. R. Cole.] • Paper, 50c.
- 18118 class 13. Electric furnaces; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [2]+1+6 p. 4° • Paper, 10c.
- 18119 class 21. Preserving, disinfecting and sterilizing; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [2]+1+11 p. 4° [Original classification by J. H. Merchant.] • Paper, 25c.
- 18120 class 33. Geometrical instruments; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [2]+2+23 p. 4° [Original classification by W. L. Thurber. Subsequent revision by C. D. Angel.] • Paper, 25c.
- 18121 class 60. Power plants; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [56] p. 4° [Original classification by H. Kenelpp. Subsequent revision by G. L. Brillhart and others.] • Paper, 50c.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

# DECEMBER 1967

- 18122 class 122. Liquid heaters and vaporizers; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [2]+5+56 p. 4° [Original classification by B. M. Dimick.] \* Paper, 75c.
- 18123 class 127. Sugar, starch and carbohydrates; revised by Office of Examining and Classifying Control. Revision 1. Sept. 1967. [2]+8 p. 4° [Original classification by L. R. Grubill.] \* Paper, 10c.
- 18124 class 134. Cleaning and liquid contact with solids; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [46] p. 4° [Original classification by M. A. Stewart.] \* Paper, 50c.
- 18125 class 136. Batteries; revised by Office of Examining and Classifying Control. Revision 1. Sept. 1967. [25] p. 4° [Original classification by E. E. Mann. Subsequent revision by T. F. Lomont.] \* Paper, 25c.
- 18126 class 137. Fluid handling; revised by Office of Examining and Classifying Control. Revision 1. Sept. 1967. [160] p. 4° [Original classification C.E.D. Subsequent revision by C. D. Angel and others.] \* Paper, \$1.75.
- 18127 class 165. Heat exchange; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [2]+2+26 p. 4° [Original classification by L. R. Frye and others.] \* Paper, 25c.
- 18128 class 174. Electricity, conductors and insulators; revised by Office of Examining and Classifying Control. Revision 1. Sept. 1967. [58] p. 4° [Original classification by J. D. Seers. Subsequent revision by J. E. Lady.] \* Paper, 50c.
- 18129 class 180. Motor vehicles; revised by Office of Examining and Classifying Control. Revision 1. Sept. 1967. [25] p. 4° [Original classification by A. W. Davidson. Subsequent revision by C. D. Angel and others.] \* Paper, 25c.
- 18130 class 185. Motors, spring, weight and animal powered; revised by Office of Examining and Classifying Control. Revision 1. Sept. 1967. [2]+1+6 p. 4° [Original classification by L. W. Worrell.] \* Paper, 10c.
- 18131 class 191. Electricity, transmission to vehicles; revised by Office of Examining and Classifying Control. Revision 1. Sept. 1967. [2]+1+10 p. 4° [Original classification by R. A. Brannigan.] \* Paper, 25c.
- 18132 class 192. Clutches and power-stop control; revised by Office of Examining and Classifying Control. Revision 1. Sept. 1967. [27] p. 4° [Original classification by E. B. Olney. Subsequent revision by J. Wegbreit and others.] \* Paper, 25c.
- 18133 class 260. Chemistry, carbon compounds; revised by Office of Examining and Classifying Control. Revision 1. Aug. 1967. [165] p. 4° [Original classification by M. C. Rosa. Subsequent revision by Edw. M. Fink and others.] \* Paper, \$1.75.
- 18134 class 401. Coating implements with material supply, established by Office of Examining and Classifying Control. Oct. 18, 1967. [2]+3+70 p. il. 4° [Original classification by L. Summer and others.] \* Paper, 75c.

## POST OFFICE DEPARTMENT Washington, DC 20260

- 18135 Address by Postmaster General Lawrence F. O'Brien at first day ceremony of George C. Marshall stamp, Lexington, Va., Oct. 24, 1967. 1967. 6 leaves, 4° (Information Service: General release 157.) † P 1.27: Ob 6/28
- 18136 Annual report of Postmaster General, Post Office Department, July 1, 1966-June 30, 1967. [1967.] viii+166 p. il. [Also issued as H. doc. 160, 90th Cong. 1st sess.] \* Paper, 60c. ● Item 835  
L.C. card 8-10371 P 1.1: 967

### [Commemorative stamp posters.]

NOTE.—Commemorative stamp posters, which will be issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.; 50c. additional for foreign mailing.

- 18137 5-cent Mississippi statehood commemorative postage stamp available at your local post office. Dec. 12, 1967. 1967. 10.5 x 8 in. P 1.26/2: M 69
- 18138 5-cent Washington re-designed, regular postage stamp first placed on sale at New York, N.Y., Nov. 17, 1967. 1967. 10.5 x in. P 1.26/2: W 27/3
- 18139 8-cent international postal card on sale at Washington, D.C., Dec. 4, 1967. 1967. 10.5 x 8 in. P 1.26/2: 1n S/10

## PRESIDENT OF UNITED STATES Washington, DC 20501

- 18140 Afflicting the comfortable, remarks of William P. McCahill, Executive Secretary, President's Committee on Employment of the Handicapped, at annual convention of Easter Seal Society, Houston, Tex., Oct. 14, 1967. [1967.] 13 p. 4° † President's Committee on Employment of the Handicapped, 7131 Department of Labor Building, Washington, D.C. 20210  
PrEx 1.10/2: M 12/5

# GOVERNMENT PUBLICATIONS

- 18141 Analysis of workstoppages on U.S. missile sites, June 1, 1966-June 1, 1967. Aug. 1967. [28] leaves, il. 4° ([President's Missile Sites Labor Commission.]) † Labor Department Pr 35.8 : M 69/W 89/966-67
- 18142 Federal approach to multiply handicapped, remarks of William P. McCahill, Executive Secretary, President's Committee on Employment of the Handicapped, before American Federation of Catholic Workers for the Blind, Oct. 10, 1967, New York City [N.Y.] [1967.] 17 p. 4° † President's Committee on Employment of the Handicapped, 7131 Department of Labor Building, Washington, D.C. 20210 PrEx 1.10/2 : M 12/4
- 18143 Impact of returning disabled Vietnam veteran with reference to rehabilitation, remarks of William P. McCahill, Executive Secretary, President's Committee on Employment of the Handicapped, before Louisiana Rehabilitation Association Convention, Alexandria, La., Sept. 26, 1967. [1967.] 10 p. 4° † President's Committee on Employment of the Handicapped, 7131 Department of Labor Building, Washington, D.C. 20210 PrEx 1.10/2 : M 12/3
- 18144 National Advisory Commission on Food and Fiber: Technical papers.  
v. 4. United States food and fiber system in changing world environment; by H. B. Arthur, R. A. Goldberg, and K. M. Bird. Aug. 1967. ix+82 p. \* Paper, 35c. ● Item 851-J Pr 36.8 : F 73/T 22/v.4
- 18145 Physical fitness demonstration center schools, project of President's Council on Physical Fitness in cooperation with State departments of education. [1967.] [10] p. il. narrow 8° † President's Council on Physical Fitness, Room 2607, HEW-South, 330 C Street SW., Washington, D.C. 20201. ● Item 851-J Pr 35.8 : P 56/Sch 6
- 18146 Report of President's Commission on Budget Concepts. Oct. 1967. iv+109 p. \* Paper, 50c. ● Item 851-J Pr 36.8 : B 85/R 29/967  
L.C. card 67-62908
- 18147 This is President's Committee on Employment of the Handicapped. [1967.] [2]+10+[1] p. † President's Committee on Employment of the Handicapped, 7131 Department of Labor Building, Washington, D.C. 20210. ● Item 766-C PrEx 1.10 : P 92  
L.C. card 67-62909

## PRISONS BUREAU, Justice Dept. Washington, DC 20537

- 18148 Statistical report, fiscal year 1966; prepared by Research, Statistics & Development Branch. [FPI, July 10, 1967.] [2]+90 p. il. 4° (Division of Management and Planning.) † J 16.2 : P 93/3/966

## PUBLIC DOCUMENTS DIVISION, Government Printing Office Washington, DC 20402

- Price list PL (series). † ● Item 554 GP 3.9:(nos.)
- 18149 21. Fish and wildlife; Oct. 1967. 52d edition. [1967.] [2]+8 p. L.C. card 26-26235
- 18150 36. Government periodicals and subscription services; Nov. 1967. 12th edition. [1967.] [2]+36 p. L.C. card 26-26170
- 18151 50. American history; Oct. 1967. 49th edition. [1967.] il+22 p. il. L.C. card 26-26331

## PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept. Washington, DC 20201

- 18152 Artificial kidney, what it is, how it works. [Revised May 1967.] [1967.] cover title, [32] p. il. oblong 24° ([Publication 1409; Bureau of Disease Prevention and Environmental Control, National Center for Chronic Disease Control, Kidney Disease Control Program.]) \* Paper, 15c. ● Item 485 FS 2.2 : K 54/967

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

# DECEMBER 1967

- 18153 Bulletin of courses, July 1967-June 1968, training program, National Center for Air Pollution Control. [1967.] 31+[12] p. il. 4° (Bureau of Disease Prevention and Environmental Control.) † FS 2.92/3: 967-68
- 18154 Cancer services facilities and programs in United States; [compiled by] National Center for Chronic Disease Control, Cancer Control Program. [Revised 1965.] [May 1967.] iv+189 p. ([Publication 14]; Bureau of Disease Prevention and Environmental Control.) [Replaces publication 14 (revised 1962) and publication 404, State cancer control programs as planned for fiscal years 1954 and 1955.] \* Paper, 75c. ● Item 485  
L.C. card 60-64681 FS 2.2: C 16/5/965
- 18155 Careers in U.S. Public Health Service: Physical therapist. [1967.] [8] p. il. narrow 8° ([Publication 1661.]) † ● Item 485 FS 2.2: P 56/7
- 18156 — Veterinarian. [1967.] [8] p. il. narrow 8° † ● Item 485  
FS 2.2: V 64/2
- 18157 Childhood leukemia, pamphlet for parents; [by] Stanford B. Friedman, Myron Karon, Gary Goldsmith. [Revised 1967.] [1967.] v+25 p. il. narrow 8° † ● Item 507 FS 2.22: L 57
- 18158 Community planning for nursing in District of Columbia metropolitan area, source book for planning; [prepared by] Division of Nursing. [May 1967.] vi+39+[1]+A104 p. 4° ([Publication 1676]; Bureau of Health Manpower.) [Map and illustration on cover.] \* Paper, \$1.00. ● Item 485  
L.C. card 67-62957 FS 2.2: C 73/13
- 18159 Dental services for American Indians and Alaska natives, annual report, fiscal year 1967. [1967.] viii+48 p. il. oblong 12° ([Publication 1724; Division of Indian Health.]) † ● Item 486-F  
L.C. card 58-62415 FS 2.86/3: 967
- 18160 Division of Physician Manpower, its mission and organization. [Sept. 1967.] [8] p. il. narrow 8° ([Bureau of Health Manpower, Division of Physician Manpower, Information Office, Arlington, Va.]) † ● Item 485  
FS 2.2: P 56/6/967
- 18161 Early detection of oral cancer using ex-foliate cytology, summary of training course. [1967.] cover title, [11] p. il. 12° ([Division of Dental Health, Dental Health Center, San Francisco, Calif.]) [Based on course prepared by Continuing Education Branch, Division of Dental Health. The last page is left blank for notes.] † FS 2.2: C 16/14
- 18162 Facts about nutrition [with list of source material on nutrition; prepared by National Institute of Arthritis and Metabolic Diseases, National Institutes of Health]. [Revised 1967.] [1967.] [2]+24+[2] p. il. oblong 24° ([Publication 917.]) \* Paper, 25c. ● Item 507  
L.C. card 67-62956 FS 2.22: N 95/967
- 18163 Families on guard against accidents. [Revised June 1967.] [1967.] [6] p. il. narrow 8° ([Publication 1674; Injury Control Program, National Center for Urban and Industrial Health.]) [Prepared in cooperation with Federal Extension Service, Agriculture Dept.] \* Paper, \$2.50 per 100; single copy 5c. ● Item 496-A FS 2.6/2: Ao 2/3/967
- 18164 Guidelines for project grants for improvement in nurse training. [Sept. 1967.] [4]+10 p. 4° ([Publication 1592; Bureau of Health Manpower, Division of Nursing.]) † ● Item 496-A FS 2.6/2: G 76/5
- Health information series. ● Item 486 FS 2.50: (nos.)
- 18165 27. Smallpox; [prepared by National Communicable Disease Center]. [Revised Jan. 1967.] [1967.] [8] p. narrow 8° ([Publication 230.]) \* Paper, \$3.00 per 100; single copy, 5c.
- 18166 92. Multiple sclerosis, hope through research; [prepared by Information Office, National Institute of Neurological Diseases and Blindness, National Institutes of Health, with National Multiple Sclerosis Society]. [Revised May 1967.] [1967.] 8 p. il. ([Publication 621.]) \* Paper, \$3.25 per 100; single copy, 5c.
- 18167 99. Cataract & glaucoma, hope through research; [prepared by Information Office, National Institute of Neurological Diseases and Blindness, National Institutes of Health]. [Revised May 1967.] [1967.] 30+[2] p. il. narrow 8° ([Publication 793.]) \* Paper, \$11.25 per 100; single copy, 15c.

☛For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

Page 57



# GOVERNMENT PUBLICATIONS

Health mobilization series. (Division of Health Mobilization.)

- 18168 1-7. Nurses serve in Hurricane Betsy. 1967. iii+59 p. il. ([Publication 1071-1-7.]) [Text on p. 2 of cover.] \* Paper, 25c. ● Item 486-E  
FS 2.302: 1-7
- 18169 Hill-Burton project register, hospital and medical facility projects approved under Hill-Burton program, complete listing projects approved July 1, 1947-June 30, 1967, separate listing projects approved during Apr.-June 1967. [1967.] xviii+249 p. 4° (Division of Hospital and Medical Facilities, Program Planning and Analysis Branch.) †  
● Item 486-C  
L.C. card 67-62925 FS 2.74: 947-67
- 18170 Laboratory aspects of syphilis. [May 1967.] [5]+21 p. il. ([Publication 1602]; Bureau of Disease Prevention and Environmental Control, National Communicable Disease Center, Venereal Disease Program.) [Illustration is colored.] \* Paper, 25c. ● Item 504 FS 2.60/2: Sy 7/2
- 18171 List of health information leaflets and pamphlets of Public Health Service. [Revised Aug. 1967.] [1967.] [10] p. narrow 8° ([Publication 323.]) †  
● Item 481-A FS 2.24 In 3/967

National Cancer Institute monograph.

- 18172 26. Second decennial review conference on cell tissue and organ culture [Tissue Culture Association, held at Bedford, Pa., Sept. 11-15, 1966, papers, with lists of references; edited by Benton B. Westfall, Sept. 1967. xlii+429 p. il. [Supported by American Society; grant-19, 1966.] \* Cloth, \$4.00.  
● Item 507-L  
L.C. card 67-62943 FS 2.22/18: 26
- 18173 National Institute of Dental Research; [prepared by staff of Information Office, National Institute of Dental Research]. [Revised 1967.] [1967.] [36] p. il. oblong 12° ([Publication 1340.]) [At head of title: Expanding world of dental science.] \* Paper, 40c. ● Item 507  
FS 2.22: D 43/7/967
- 18174 National Institute of Mental Health support programs; [prepared by Public Information Branch], National Institute of Mental Health. [1967.] v+54 p. oblong 12° ([Publication 1700; National Clearinghouse for Mental Health Information.]) \* Paper, 40c. ● Item 507  
L.C. card 67-62958 FS 2.22: N 21/S

NINDB research profiles. ● Item 507-A-6 FS 2.22/43: (nos.)

- 18175 1. Summary of research at National Institute of Neurological Diseases and Blindness. [Revised 1967.] 1967. v+29 p. il. ([Publication 1109.]) [Prepared as background information for this years' Congressional hearings on appropriations.] \* Paper, 20c.
- 18176 2. Cerebrovascular disorders (strokes). [Revised 1967.] 1967. v+6 p. il. ([Publication 1110.]) [Included in annual statement made to Congress of United States by Director of National Institute of Neurological Diseases and Blindness.] \* Paper, 15c.
- 18177 3. Eye disorders. [Revised 1967.] 1967. v+20 p. il. ([Publication 1155.]) [Included in annual statement to Congress of United States by Director of National Institute of Neurological Diseases and Blindness.] \* Paper, 15c.
- 18178 4. Hearing, [language], and speech disorders. [Revised 1967.] 1967. vi+11 p. il. ([Publication 1156.]) [Included in annual statement made to Congress of United States by Director of National Institute of Neurological Diseases and Blindness.] \* Paper, 15c.
- 18179 6. Multiple sclerosis (MS). [Revised 1967.] 1967. v+5 p. il. ([Publication 1158.]) [Included in annual statement made to Congress of United States by Director of National Institute of Neurological Diseases and Blindness.] \* Paper, 15c.
- 18180 7. Neuromuscular disorders. [Revised 1967.] 1967. v+8 p. il. ([Publication 1159.]) [Included in annual statement made to Congress of United States by Director of National Institute of Neurological Diseases and Blindness.] \* Paper, 15c.
- 18181 8. Parkinson's disease. [Revised 1967.] 1967. v+7 p. il. ([Publication 1160.]) [Included in annual statement made to Congress of United States by Director of Neurological Diseases and Blindness.] \* Paper, 15c.
- 18182 10. Epilepsy. [Revised 1967.] 1967. v+6 p. il. ([Publication 1327.]) [Included in annual statement made to Congress of United States by Director of National Institute of Neurological Diseases and Blindness.] \* Paper, 15c.
- 18183 13. Cerebral palsy. 1967. vi+12 p. il. ([Publication 1671.]) [Included in annual statement to Congress of United States by Director of National Institute of Neurological Diseases and Blindness.] \* Paper, 15c.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available



- 18184 Nursing careers among American Indians. [1967.] [10] p. il. narrow 8° ([Publication 1626.]) \* Paper, 15c. ● Item 485 FS 2.2: N 93/33/967
- 18185 Proceedings of Public health conference on records and statistics, 11th national meeting June 20-24, 1966 [papers, with lists of references; prepared by National Center for Health Statistics]. [1967.] xii+380 p. il. 4° ([Publication 1594; PHCRS doc. 612.]) \* Paper, \$2.25. ● Item 509-A  
L.C. card 54-35446 FS 2.122: 966
- 18186 Smoking and illness. [July 1967, revised Sept. 1967.] [1967.] [2]+6 p. narrow 8° ([Publication 1662; Bureau of Disease Prevention and Environmental Control, National Center for Chronic Disease Control, National Clearinghouse for Smoking and Health.]) \* Paper, \$7.00 per 100; single copy, 10c. ● Item 485 FS 2.2: Sm 7/7/967-2
- 18187 Spectrum of dental research; [prepared by Information Office], National Institute of Dental Research, National Institutes of Health. [1967.] [6]+28+[2] p. il. oblong 12° (Publication 1678.) \* Paper, 35c. ● Item 507  
L.C. card 67-62964 FS 2.22: D 43/9
- Vital and health statistics: Series 10, Data from National Health Survey. (National Center for Health Statistics.) ● Item 500-E  
FS 2.85/2: 10/no. (nos.)
- 18188 39. Prescribed and nonprescribed medicines, type and use of medicines, United States, July 1964-June 1965; [by Alice J. Alderman]. Oct. 1967. [4]+41 p. il. 4° ([Publication 1000, series 10, no. 39; Division of Health Interview Statistics.]) \* Paper, 30c.  
L.C. card 67-60073
- 18189 40. Characteristics of persons with diabetes, United States, July 1964-June 1965 [with list of references; by Mary Lou Bauer]. Oct. 1967. [5]+44 p. il. 4° ([Publication 1000, series 10, no. 40; Division of Health Interview Statistics.]) [Replaces issue dated Aug. 1967. See Entry 14638 in Sept. 1967 Monthly Catalog.] \* Paper, 35c.  
L.C. card 67-61851
- 18190 Vital statistics of United States, 1965. ([National Center for Health Statistics, Division of Vital Statistics.])  
v. 2. Mortality, pt. A. 1967. [427] p. 4° \* Cloth, \$3.75. ● Item 510  
L.C. card 40-26272 FS 2.112: 965/v.2/pt.A
- 18191 X-ray machine simulator [with bibliography]; prepared by E. Dale Trout, X-ray Science and Engineering Laboratory, Oregon State University. Oct. 1967. vii+69 p. il. 4° ([Publication 1718.]) ; Bureau of Disease Prevention and Environmental Control, National Center for Radiological Health, contract PH 86-65-92.) † ● Item 485  
L.C. card 67-62935 FS 2.2: X 7/4

**PUBLIC ROADS BUREAU, Transportation Dept.**  
Washington, DC 20591

- 18192 Engineering opportunities, bridge to your success in Bureau of Public Roads highway engineering training program. Sept. 1967. cover title, 20 p. il. oblong 12° \* Paper, 30c. ● Item 265 TD 2.102: En 3
- 18193 Opportunities as professional highway engineer. Sept. 1967. [8] p. il. narrow 8° † TD 2.102: H 53
- 18194 Typical plans for retaining walls, reinforced concrete retaining walls, types 1, cantilever type, 2, counterfort type. Sept. 1967. cover title, [12] leaves, il. oblong large 8° \* Paper, 45c. ● Item 265-A TD 2.108: W 15

**RECLAMATION BUREAU, Interior Dept.**  
Washington, DC 20240

- 18195 Columbia Basin project, Wash. [1967.] [8] p. il. narrow 8° † ● Item 660 I 27.2: C 72/15/967

## GOVERNMENT PUBLICATIONS

### REHABILITATION SERVICES ADMINISTRATION, Health, Education, and Welfare Dept., Washington, DC 20201

NOTE.—The Rehabilitation Services Administration has been assigned to the Social and Rehabilitation Service which was established August 15, 1967, by the Secretary of the Department of Health, Education, and Welfare in a major realignment of Federal welfare rehabilitation and social welfare service programs. The Vocational Rehabilitation Administration was disestablished on the same date.

- 18196 Exploratory cost-benefit analysis of vocational rehabilitation; [prepared by Lawrence I. Mars]. [Aug. 11, 1967.] cover title, vi+71 p. 4° (Division of Statistics and Studies, Vocational Rehabilitation Administration.) †  
L.C. card 67-62937 FS 13.202: C 82

### RENEGOTIATION BOARD Washington, DC 20446

- 18197 Renegotiation Board regulations, amdt. 21, [1967.] [38] p. 4° [Erratum, 1 p., issued also. Includes foreword. Issued in looseleaf form.] \* Paper, \$6.50 (including basic regulations and supplements or revisions for indefinite period); \$1.75 additional for foreign mailing. ● Item 308  
RnB 1.6/2: 964/amdt.21
- 18198 — amdt. 22. [1967.] [107] p. 4° [Includes foreword. Issued in looseleaf form.] \* Paper, \$6.50 (including basic regulations and supplements or revisions for indefinite period); \$1.75 additional for foreign mailing.  
● Item 308 RnB 1.6/2: 964/amdt.22

### RURAL ELECTRIFICATION ADMINISTRATION, Agriculture Dept. Washington, DC 20250

- 18199 1966 annual statistical report, rural electrification borrowers [lending program of Rural Electrification Administration loan, operating and financial statistics of REA electric borrowers, year ending Dec. 31, 1966]. [Aug. 1967.] cover title, 260 p. il. 4° (REA bulletin 1-1.) [Text on p. 2 of cover.] \* Paper, \$1.25. ● Item 115 A 68.1/2: 966
- Bulletin.
- 18200 1-1. See above, 1966 annual statistical report, rural electrification borrowers.

### SMALL BUSINESS ADMINISTRATION Washington, DC 20416

- 18201 SCORE, Service Corps of Retired Executives. [Aug. 1967.] [4] p. il. 4° ([Office of Public Information; OPI-16.]) † ● Item 901-B  
SBA 1.2: Se 6/967-2
- 18202 Small Business Administration publications, free management assistance publications. Oct. 1967. [4] p. 4° (SBA 115A.) † ● Item 901-N  
SBA 1.18: 967

### SMITHSONIAN INSTITUTION Washington, DC 20560

- 18203 Growth of United States, 1640-1851. [1967.] [6] p. il. 16° † ● Item 910  
SI 1.2: Un 3/2
- 18204 Smithsonian contributions to astrophysics. (Astrophysical Laboratory.)  
v. 10, no. 1. Analysis of atmospheric trajectories of 413 precisely reduced photographic meteors [with list of references]; by Luigi G. Jacobia, Franco Verniana, and Robert R. Briggs. 1967. iii+139 p. il. 4°  
\* Paper, \$1.00. ● Item 909-B  
L.C. card 67-62966 SI 1.12/2: 10/1

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

**SOCIAL AND REHABILITATION SERVICE, Health, Education, and Welfare Dept., Washington, DC 20201**

NOTE.—The Social and Rehabilitation Service was established August 15, 1967, in a major realignment of Federal welfare rehabilitation and social service programs by the Secretary of the Department of Health, Education, and Welfare. This new agency will carry out the functions of the Welfare Administration, the Vocational Rehabilitation Administration, the Administration on Aging, and the Mental Retardation Division of the Bureau of Health Services, Public Health Service.

- 18205 State maximums and other methods of limiting money payments to recipients of special types of public assistance, Oct. 1966. Sept. 1967. 4+[4] p. 4° [Issued with perforations.] † FS 17.2: P 96/966

**SOCIAL SECURITY ADMINISTRATION, Health, Education, and Welfare Dept., Washington, DC 20201**

Health insurance for the aged HIM (series).

- 18206 11. Home health agency manual, revision, no. 4. Oct. 1967. [50] p. 4° [Issued in looseleaf form.] † ● Item 516-C FS 3.6/4: 11/rev.4

- 18207 Planning for the later years. [1967.] cover title, [2]+51 p. il. 4° (P-3000 (8-67).) \* Paper, 35c. ● Item 516  
L.C. card HEW 67-164 FS 3.2: P 69/967

Research and statistics note, 1967 (series). (Office of Research and Statistics.)

- 18208 17. Issuances of social security account numbers, 1966; prepared in Division of Statistics. Oct. 18, 1967. 4+[6] p. il. 4° † FS 3.28/2: 967/17

SSI-(series). † ● Item 523-B FS 3.52: (nos.)

- 18209 14. Your health insurance, facts about medicare. Oct. 1967. 10 p. narrow 8°  
18210 32. Self-employed farmers are you getting your social security credit? [Dec. 1967.] 8 p. oblong 24°

- 18211 Your duties as representative payee. [1967.] 16 p. il. narrow 12° ([SSA-779(6-67).]) † ● Item 520 FS 3.6: P 29/967-2

**SOIL CONSERVATION SERVICE, Agriculture Dept.  
Washington, DC 20250**

- 18212 Soil survey: Adams County, Wash. [with list of literature cited; by Charles D. Lenfesty and others]. Sept. 1967. cover title, ii+110 p. il. 168 p. of pl. and maps, 2 tabs., 4° [Prepared in cooperation with Washington Agricultural Experiment Station. Text on p. 2 of cover.] \* Paper, \$7.50.  
● Item 102 (Rev. 1967)  
L.C. card Agr 67-368 A 57.38: Ad 1/2

- 18213 — Bremer County, Iowa [with list of literature cited; by Russell L. Buckner]. Oct. 1967. cover title, ii+118 p. il. 77 p. of pl. and maps, 1 tab. 4° [Prepared in cooperation with Iowa Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$4.00. ● Item 102 (Rev. 1957)  
L.C. card Agr 67-376 A 57.38: B 75

- 18214 — Garfield County, Okla. [with list of literature cited; by Bill Swafford]. [Oct. 1967.] cover title, ii+57 p. il. 95 p. of pl. and maps, 1 tab. 4° [Prepared in cooperation with Oklahoma Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$4.50. ● Item 102 (Rev. 1957)  
L.C. card Agr 67-382 A 57.38: G 18

- 18215 — Randolph County, Ala. [with list of literature cited; by William B. Parker]. Oct. 1967. cover title, ii+69 p. il. 107 p. of pl. and maps, 4° [Prepared in cooperation with Alabama Agricultural Experiment Station and Alabama Department of Agriculture and Industries. Text on p. 2 of cover. One map is colored.] \* Paper, \$5.00. ● Item 102 (Rev. 1957)  
L.C. card Agr 67-369 A 57.38: R 15

‡For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151

●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## Soil survey investigations report.

- 18216 16. Soil laboratory data and descriptions for some soils of Georgia, North Carolina, South Carolina. Sept. 1967. [4]+164 p. il. 4° [Prepared in cooperation with Georgia, North Carolina, and South Carolina Agricultural Experiment Stations.] † ● Item 121-A A 57.52:16
- 18217 Water supply outlook for Montana and Federal-State-private cooperative snow surveys [snow pillow records, 1967 water year]; prepared by P. E. Farnes. Oct. 1, 1967. [4] p.+21 leaves, il. 4° [Prepared in cooperation with Montana Agricultural Experiment Station.] † A 57.2: Sn 6/14/967

## SPECIAL REPRESENTATIVE FOR TRADE NEGOTIATIONS, OFFICE OF, Executive Office of the President, Washington, DC 20506

- 18218 Future U.S. world trade policy, address by William M. Roth, Special Representative for Trade Negotiations, before World Affairs Committee, Export-Import Committee of Greater Detroit Board of Commerce, Oct. 5, 1967. 1967. 9 p. 4° (Release 97.) † PrEx 9.9: R 74/5
- 18219 Kennedy Round completed, results and future impact upon U.S. businessmen, address by William M. Roth, Special Representative for Trade Negotiations, before World Marketing Conference, University of Cincinnati, Oct. 10, 1967. 1967. 9 p. 4° (Release 93.) † PrEx 9.9: R 74/4
- 18220 Our future trade policy, quotas or competition? address by William M. Roth, Special Representative for Trade Negotiations before 54th National Foreign Trade Convention, New York, Oct. 31, 1967. [1967.] 9 p. 4° (Release 102.) † PrEx 9.9: R 74/6

## STATE DEPARTMENT Washington, DC 20520

### Background notes. ([Office of Media Services, Bureau of Public Affairs.]) [Issued with perforations.]

- 18221 Denmark [with bibliography]. Sept. 1967. 4 p. il. 4° ([Publication 8298.])  
\* Paper, 5c. ● Item 862-B S 1.123: D 43  
L.C. card 65-60213
- 18222 Italy [with bibliography]. [Revised Aug. 1967.] [1967.] 7 p. il. 4° ([Publication 7861.])  
\* Paper, 5c. ● Item 862-B S 1.123: It 1/967  
L.C. card 66-61561
- 18223 Mozambique [with bibliography]. [Revised Aug. 1967.] [1967.] 4+[1] p. il. 4°  
[Publication 7965.] \* Paper, 5c. ● Item 862-B S 1.123: M 87/967  
L.C. card 66-61561
- 18224 Niger [with bibliography]. [Sept. 1967.] 4 p. il. 4° ([Publication 8293.])  
\* Paper, 5c. ● Item 862-B S 1.123: N 56  
L.C. card 65-60213
- 18225 Syria [with bibliography]. [Revised Sept. 1967.] [1967.] 5 p. il. 4° ([Publication 7761.])  
\* Paper, 5c. ● Item 862-B S 1.123: Sy 8/967  
L.C. card 66-61561

### Department and Foreign Service series.

- 18226 127. You and your passport, application requirements, vaccinations, care of your passport, visas, getting along abroad. [Revised edition.] [Aug. 1967.] [12] p. narrow 12° ([Publication 7728]; Passport Office.) \* Paper, 10c. ● Item 863 S 1.69: 127/4  
L.C. card SD 57-1

### Discussion guide, tape-recorded Department of State briefings.

- 18227 Foreign Service, briefing by U. Alexis Johnson, United States Ambassador to Japan, [1967.] 3 p. 4° ([Publication 8303.]) [Includes list of reference material. Issued with perforations.] \* Paper, 5c. ● Item 865-C S 1.40/4: F 76

### East Asian and Pacific series. ● Item 870

- 18228 167. Answering aggression in Viet-Nam; [by] President Lyndon B. Johnson. [Oct. 1967.] cover title, 12 p. ([Publication 8305; Office of Media Services, Bureau of Public Affairs.]) [Text of remarks to National Legislative Conference at San Antonio, Tex., Sept. 29, 1967. Text on p. 2 of cover.] \* Paper, 15c. S 1.38: (nos.)
- 18229 168. Central issue in Viet-Nam, Secretary Rusk discusses U.S. national interests in Asia. [Oct. 1967.] cover title, [2]+10 p. 4° ([Publication 8313; Office of Media Services, Bureau of Public Affairs.]) [Transcript of portions of news conference, Oct. 12, 1967. Entire text will appear in Department of State bulletin, Oct. 30, 1967.] \* Paper, 15c.

\*For Sale by Superintendent of Documents

†Distribution Made by Issuing Office

‡Official Use. Not Available

## DECEMBER 1967

- 18230 Foreign relations of United States, diplomatic papers 1945; v. 1, General, United Nations. 1967. lviii+1611 p. ([Publication 8294; Historical Office, Bureau of Public Affairs.]) [Also issued as H. doc. 779, pt. 1, 79th Cong., 2d sess.] \* Cloth, \$5.25. ● Item 872  
L.C. card 10-3793 S 1.1: 945/v.1

### General foreign policy series.

- 18231 221. Foreign aid, essential element of United States foreign policy, address by Under Secretary of State Nicholas deB. Katzenbach [before New England Jaycee Convention at Hyannis, Mass., Sept. 30, 1967]. [1967.] cover title, 12 p. 12° ([Publication 8309; Office of Media Services, Bureau of Public Affairs.]) [Text on p. 2 and 3 of cover.] \* Paper, 15c. ● Item 875  
L.C. card SD 67-12 S 1.71: 221

### International organization and conference series.

- 18232 79. Concert and conciliation, next stage of Atlantic alliance [address by Eugene V. Rostow, Under Secretary for Political Affairs, before Atlantic Treaty Association at Luxembourg, Sept. 11, 1967]. [Oct. 1967.] [2]+8+[1] p. 4° ([Publication 8315; Office of Media Services, Bureau of Public Affairs.]) [Reprinted from Department of State bulletin, Oct. 2, 1967.] \* Paper, 15c. Item 882-B  
L.C. card 67-62922 S 1.70: 79

### Treaties and other international acts series. \* Paper, \$10.00 a yr. (approximately 150 issues), \$6.00 additional for foreign mailing; single copies vary in price.

- 18233 6328. Treaties, continued application to Malawi of certain treaties concluded between United States and United Kingdom, agreement between United States and Malawi, effected by exchange of notes dated Zomba and Blantyre Dec. 17, 1966, and Jan. 6 and Apr. 4, 1967: [entered into force Apr. 4, 1967]. [1967.] [2]+4 p. \* Paper, 5c. ● Item 899  
L.C. card 67-62633 S 9.10: 6328

## STATISTICAL REPORTING SERVICE, Agriculture Dept. Washington, DC 20250

- 18234 Meat animals, farm production, disposition, and income, by States, 1965-66. Apr. 1967. 15 p. 4° (MtAn 1-1(67); Crop Reporting Board.) †  
A 92.17: 965-66
- 18235 Peanut stocks and processing, seasonal report, Aug. 1966-July 1967, revised. Oct. 1967. 7 p. 4° (GrLg 11-2-1(67); Crop Reporting Board.) †  
A 92.14/2: 966-67

## TARIFF COMMISSION Washington, DC 20436

- 18236 Eyeglass frames, report to the President on investigation no. TEA-1-10 under sec. 301(b) of Trade expansion act of 1962. Oct. 1967. cover title, [1]+31 leaves, 4° (Publication 219.) †  
L.C. card 67-62931 TC 1.2: Ey 3
- 18237 Summaries of trade and tariff information, prepared in terms of Tariff schedules of United States (TSUS): Schedule 6, Metals and metal products, v. 4, Iron and steel. 1967. vii+294 p. il. 4° (TC publication 221.) †  
L.C. card 67-62918 TC 1.26/2: 6/4
- 18238 Synthetic organic chemicals, United States production and sales of medicinal chemicals, 1966, preliminary. Oct. 1967. cover title, [1]+26 p. 4° †  
TC 1.33/2: M 46

## TENNESSEE VALLEY AUTHORITY Washington, DC 20444

### Forestry bulletin. (Division of Forestry Development, Morris, Tenn.)

- 18239 133. Forest inventory statistics, Campbell County unit, east Tennessee. [Sept. 1967.] cover title, [2]+2-18 p. il. map, 4° [Another map on p. 3 of cover.] †  
Y 3.T 25: 18/133

4For Sale by Clearinghouse, U.S. Department of  
Commerce, Springfield, Va. 22151  
●Sent to Depository Libraries

# GOVERNMENT PUBLICATIONS

## TERRITORIES OFFICE, Interior Dept. Washington, DC 20240

- 18240 Our Caribbean gems, U.S. Virgin Islands. [1967.] 30+[2] p. il. [Illustrations are colored.] \* Paper, 35c. ● Item 672  
L.C. card 67-62910 T 35.13/2: C 19

## TREASURY DEPARTMENT Washington, DC 20220

- 18241 Financial frontiers, remarks of Frederick L. Deming, Under Secretary of Treasury for Monetary Affairs at Mid-Continent east regional meeting of American Association of Collegiate Schools of Business in Minneapolis, Minn., Oct. 19, 1967. 1967. 14 p. 4° (F-1057.) † T 1.31: D 39/16
- 18242 Importance of savings bonds in current economic picture, remarks of Joseph W. Barr, Under Secretary of Treasury before National Association of Theater Owners, Bal Harbour, Fla., Oct. 20, 1967. [1967.] 11 p. 4° (F-1058.) † T 1.31: B 27/33
- 18243 Remarks by Henry H. Fowler, Secretary of Treasury, at Honors Convocation of Roanoke College, Salem, Va., Oct. 28, 1967. [1967.] 17 p. 4° (F-1066.) † T 1.31: F 82/87
- 18244 Tax surcharge and national economy, address of Robert A. Wallace, Assistant Secretary of Treasury before 24th annual convention of National League of Insured Savings Associations, San Francisco, Calif., Oct. 24, 1967. 1967. 8 p. 4° (F-1062.) † T 1.31: W 15/2
- 18245 What kind of a people are we? statement of Joseph W. Barr, Under Secretary of Treasury, at press conference held in Miami Beach, Fla., at convention of National Association of Theater Owners, Oct. 19, 1967. [1967.] 7 p. 4° (F-1059.) † T 1.31: B 27/32

## VETERANS ADMINISTRATION Washington, DC 20420

- 18246 Bulletin of prosthetic research, BPR 10-7, spring 1967 [with lists of references; editor, William M. Bernstock]. [1967.] iv+285 p. il. 4° (Prosthetic and Sensory Aids Service, Department of Medicine and Surgery.) \* Paper, \$1.00. ● Item 983-B  
L.C. card 66-60273 VA 1.23/3: 10-7

### VA monograph (series).

- 18247 10-2. Medical ethics and research [symposium sponsored by Research and Education Service of Veterans Administration Department of Medicine and Surgery at 17th annual medical research conference, Cincinnati, Ohio, Nov. 29-Dec. 1, 1966; A. A. Rasch, editor]. [1967.] cover title, [47] p. 4° † ● Item 989-F  
L.C. card 67-62917 VA 1.48: 10-2

### VA pamphlets. †

VA 1.19: (nos.)

- 18248 10-61. Librarians in Veterans Administration hospitals, nationwide. Revised Aug. 1967. [1967.] [4] p. il. 4° ([Department of Medicine and Surgery.]) ● Item 988
- 18249 10-65. Building management officers in Veterans Administration hospitals, nationwide. [Revised Aug. 1967.] [1967.] [8] p. il. 4° ([Department of Medicine and Surgery.]) ● Item 988
- 18250 20-67-2. For you, from a grateful nation. [1967.] cover title, [20] p. il. 12°

## VOCATIONAL REHABILITATION ADMINISTRATION, Health, Education, and Welfare Dept.

NOTE.—The Vocational Rehabilitation Administration was disestablished and its functions transferred to Rehabilitation Services Administration effective August 15, 1967.

\*For Sale by Superintendent of Documents  
†Distribution Made by Issuing Office  
‡Official Use. Not Available

WAGE AND HOUR AND PUBLIC CONTRACT DIVISIONS,  
Labor Dept., Washington, DC 20210

- 18251 Regulations, title 29 of Code of Federal regulations.  
pt. 519. Employment of full-time students at special minimum wages [1967.]  
[4] p. 4° (WHPC publication 1223.) [Reprint from Federal register  
of July 29, 1967.] † ● Item 780 L 22.9: 519/4
- 18252 Sheltered workshop report of Secretary of Labor, together with technical  
report on wage payments to handicapped clients in sheltered workshops,  
submitted to Congress Sept. 1967. [1967.] cover title, vii+[1]+95  
+A-252 p. 4° \* Paper, \$1.75. ● Item 777  
L.C. card 67-62831 L 22.2: Sh 4

WEATHER BUREAU, Commerce Dept.  
Washington, DC 20235

- 18253 Manual for radiosonde code (WBAN), standards and procedures for coding  
radiosonde reports, effective Jan. 1, 1968. 3d edition. 1967. viii+67 p.+[5]  
leaves, map, 4° [Issued in looseleaf form. Prepared in cooperation with  
Air Weather Service, Air Force Department and Naval Weather Service,  
Navy Department.] \* Paper, \$1.00. ● Item 275-E  
L.C. card 67-62885 C 30.6/2: R 11/968
- 18254 Manual for upper wind code (WBAN) (standards and procedures for cod-  
ing of upper wind reports); effective Jan. 1, 1968. 3d edition. 1967.  
viii+52 p.+[6] leaves, il. 4° [Issued with perforations. Prepared in  
cooperation with Air Weather Service, Air Force Department, and Naval  
Weather Service, Navy Dept.] \* Paper, 75c. ● Item 275-E  
L.C. card 67-62884 C 30.6/2: W 72/967

WOMEN'S BUREAU, Labor Dept.  
Washington, DC 20210

- 18255 Utilization of women workers. [1967.] cover title, [1]+133-139 p. il. 4°  
[Reprint from 1967 Manpower report.] † L 1.42/2a: W 842





# Index

MONTHLY CATALOG, JANUARY-DECEMBER 1967

NOTE.—*Entries appear in this Index under subjects or titles. Bulletins, circulars, etc., having no specific subjects are entered under the issuing office only. Index citations are to entry numbers in the catalog.*

## A

A.E.C., *see* Atomic Energy Commission.  
A.F.O.S.R., *see* Air Force Office of Scientific Research.  
A.I.D., *see* International Development Agency.  
A.M.C., *see* Army Materiel Command.  
A.P.R.O., *see* Army Personnel Research Office.  
A.R.S. series, 2-9, 1672-74, 4083-86, 5615-16, 7241-52, 8803-8, 10147-156, 11915-922, 13196-203, 14733, 15824-827, 17299-300  
A.S.C.S., *see* Agricultural Stabilization and Conservation Service.  
Aamot, Haldor W. C., heat transfer and performance analysis of thermal probe for glaciers, 17377  
Aase, James H., mineral industry of Iowa, 2554  
AASHO, *see* American Association of State Highway Officials.  
AAXICO Airlines, Inc., aircraft accident, 7516  
Abadi, Victor, relief, 9219  
Abbot, C. G.:  
    precipitation in 5 continents, 11790  
    supplement to long-range forecast of United States precipitation, 11791  
Abbott, E. A., some turbidimetric observations in East Siberian Sea, 9988  
Abbott, Elaine R., basic data on economy of Republic of Ivory Coast, 13466  
Abbott, Geraldine W., agriculture in Indonesia, 9393  
Abbreviations:  
    contractions used by FAA, air traffic control, etc., handbook, changes, 5716, 13273  
    Federal aviation regulations, 1038, 9441, 12488, 14000  
    Latin American press, glossary, 12721  
    State and long postal unit names for use with ZIP codes, 7043  
Abel, John E., maximum utilization of FM subcarrier bandwidth, 9992  
Abel, Martin E., world food situation, prospects for world grain production, consumption, and trade, 15209  
Abel, Robert B., inner space, sea of opportunity, 6186  
Abies, *see* Fir.  
Ability:  
    Federal-State programs for developing human resources, 6248  
    human resources development programs of Federal Government—  
        questions and outline for economic analysis, papers, 12189  
        remarks, 12474  
        replies from Government departments and agencies to questionnaire, compilation, 7590  
        print additional copies, report, 12240  
    1968 national ability counts contest for 11th and 12th grade students, announcement, 15667

## Ability—Continued

    perspectives on natural resources and human resources, seminar, 6597  
Ability grouping in education, grouping related to pupil learning, survey of research, 4721  
Abington, Pa., township, population, special census, 8951  
Ablating materials:  
    ablative-material thrust chambers as components of storable-propellant rocket engines, evaluation, 15555  
    char-forming phenolic polymer used for ablative composites, decomposition characteristics, 6862  
    heat shield for X-15-2, arc-tunnel evaluation, 5238  
    obtaining surface temperatures of materials in presence of extraneous radiation, 16975  
    phenolic nylon—  
        effect of composition, density, etc., on ablative performance, 9889  
        low-density, thermophysical properties, 14377  
    reentry signal loss attributable to ablation impurities, 14494  
Ablation:  
    conical teflon models, static aerodynamic characteristics, measured and computed, 11555  
    effect on boundary layer separation, 12954  
    polymers, determination of kinetic parameters, by thermogravimetric analysis, 9896  
    reentry vehicle heat shield, sensors measure, 6758  
    sensors to obtain in-flight ablation measurements of thermal-protection materials, 1494  
    surface, of noncharring materials, 2724  
    thermal radiation studies of ablating bodies in ballistic range, survey, 5234  
Ablators:  
    artificial meteors, study as ablaters, 8480  
    charring—  
        internal temperature measurements, effect of thermocouple wire and configuration, 6864  
        low density, parametric study, 2713  
    Ables, Jackson H., jr., filling and emptying systems, low-lift locks, Arkansas River project, hydraulic model investigation, 4743  
ABM, *see* Missiles.  
Abort, lunar mission, manual guidance technique with concentric-flight plan rendezvous, 14481  
Abortion, artificial, mechanism by use of ascorbic acid, USSR study, 1276  
Abraded cadmium-plated cable connectors repaired by conversion coating, 6746  
Abrahams, John H., jr., summaries of research and training grants in solid waste disposal, 10063  
Abrahamsen, Martin A., cooperatives today and tomorrow, 2232

- Abramson, H. Normau, dynamic behavior of liquids in moving containers, with applications to space vehicle technology, 5189
- Abrasives:**  
 cracks in glass electrical connector headers removed by dry blasting with fine abrasive, 12886  
 Federal item identification guides for supply cataloging, supplements, 3291  
 grading of abrasive grain on coated abrasive products, standard of trade, 12988  
 grading of grain for grinding wheels, standard of trade, 11581  
 grinding wheels, safe practices, 9723  
 materials, minerals yearbook chapter, 5097
- Abscissas and weights for Gaussian quadrature, 5284
- Absenteeism, Army personnel, AWOL and consequences, 5736
- Absorptiometry with beta excited X-ray sources, interim report, 5770
- Absorption:**  
 absorptive properties of small particles and heavy-atom gases, 5182  
 1,4 cyclohexanediol (methylamine), regenerative carbon dioxide absorbent, 8589  
 Infrared spectroscopy, use for representation of lipids of skin surface, Yugoslavian study, 12667  
 neutron resonance, calculation in 2-region problems, GAKOL code, 15486  
*see also* Atomic absorption.
- Absorption coefficients:**  
 determining scattering and absorption coefficients of paper by diffuse illumination, 11114  
 O<sub>2</sub> at oxygen windows, 18050
- Absorption spectra, *see* Spectra.
- Absorption spectrometry, *see* Spectrometry.
- Abstracts, *see* names of departments, bureaus, etc., issuing abstracts—*also* subjects.
- Academic degrees, *see* Degrees (colleges, universities, etc.).
- Academy of Agricultural Sciences, Bulgaria, new members and corresponding members, 1205
- Academy of Medical Sciences, USSR:  
 nominations, 5022  
 pediatrics session, report, 2461  
 vestnik (periodical), 4036
- Academy of Sciences, Armenian SSR, annual meeting, evaluates recent work, 9636
- Academy of Sciences, Azerbaijan SSR, annual meeting, 1966 activities discussed, 9668
- Academy of Sciences, Bulgaria:  
 history and achievements, 6557  
 Vice President Vladimir Georgiyev interviewed, 4991, 6480
- Academy of Sciences, Hungary, secretarial report of Department of Biological Sciences, 1269
- Academy of Sciences, Kazakh SSR:  
 activities, 8250, 12677  
 dissertations defended by scientific co-workers, list, 11246  
 projects planned, 12753  
 scientific research, resolution, 4965
- Academy of Sciences, Latvia:  
 activities reviewed, 8250  
 biographies of members, 1163
- Academy of Sciences, Moldavian SSR, work reviewed, 8272
- Academy of Sciences, Rumania, astronomical observatories, activities, 1290
- Academy of Sciences, Tadzhik SSR:  
 conference of young scientists, 14254  
 Department of Biological Sciences, newly elected members, 16785
- Academy of Sciences, Ukrainian SSR:  
 news, 9638  
 organization of comprehensive research, 15399  
 presidium, recent activities, reports, 11275
- Academy of Sciences, USSR:  
 All-Union Entomological Society, activities report, 2471  
 Departments of Biochemistry, Biophysics, and Chemistry of Physiologically Active Compounds, annual convention, 12745  
 elections of biomedical scientists, 1331  
 new members, 2440  
 organic and physical chemistry reports, 6579  
 seminars discuss latest concepts in philosophy and science, 1291  
 vestnik (periodical), 4037
- Academy of Sciences, Uzbek SSR, work reviewed, 8272
- Acaricides, candidate materials evaluated, Brownsville, Tex., 13196
- Acceleration:**  
 angular—  
   eye-movements and subjective turning responses to 2 durations, 15980  
   responses to, following unilateral caloric habituation, 10322  
   visual fixation effects of brief periods on nystagmus and sensations of turning, 15981  
 density, calculation in computer program, 11451  
 impulse, nitrogen metabolism in brain of rats, USSR study, 1167  
 lateral, effect on liquid surface motion during weightlessness, 12966  
 linear, effect on vestibular organs in role of exploration of space, 5191  
 load factor, information on rectilinear display in spacecraft entry monitoring system, 14439  
 loads, cushioned by friction brake, 6771  
 measurements on board entry vehicle, use in determining structure of atmosphere, 9904  
 7 G levels, effect on renal excretion of solutes in rabbits, 14776  
 three-dimensional plasma, through magnetic fields, etc., 5256  
 water landings of Apollo spacecraft, dynamic model investigations, 16970
- Accelerator reactors, *see* Reactors (atomic).
- Accelerators:**  
 accelerator-produced radiation, biological interpretation of dose, symposium proceedings, 15960  
 grid durability tests of mercury electron-bombardment ion thrusters, 14462  
 linear Hall current, instabilities, 5175  
 plasma accelerators, movable rf probe eliminates need for calibration, 17973  
 plasma gun, fast-acting calorimeter measures heat output, 12911  
 Reusseler linear, use of plasma oscillations experiment, 12870  
 Soviet plans, 1342  
 Stanford Linear Accelerator Center dedication (remarks), 15975  
 traveling magnetic wave plasma, variable-length constant-velocity, experimental investigation, 18034  
 200-Bev, research program, AEC authorization legislation, hearings, 10491
- Accelerometers:**  
 dynamic response to impact loadings of acceleration sensors having various mounting characteristics, 11521  
 instrument automatically selects peak acceleration signal from several accelerometers, 1459  
 instrument sequentially samples ac signals from several accelerometers, 8461  
 low level test methods investigated, 2642  
 miniature capacitive, especially applicable to telemetry, 1470  
 miniature piezoelectric triaxial, measures cranial accelerations, 2659  
 rectilinear, possesses self-calibration feature, 1453

Accession notice, industry profiles, 11229  
 Accident insurance, credit, for student loans, increase maximum amount allowable in D.C., report, 882  
 Accidents:  
   boating—  
     rules and regulations for reporting, 9007  
     statistics, 9000  
   causes—  
     concrete brick and block industry, 16813  
     hazardous trees on California forest recreation sites, 11125  
     in school lunchrooms, 14282  
     occupational safety aids, 9710, 16798  
     families on guard against, 18163  
     Federal employees, on-the-job injuries, financial protection, 1925  
     how to investigate accidents, 9712, 16802  
     industrial accidents in USAEC facilities, 1956, revised summary, 15967  
     industrial hazards, publications, price list, 17135  
     investigations and records in industry, instructor outline, 8291  
   motorcycles—  
     fun and personal protection from accidents, 17174  
     United States, causes, control, etc., 5448  
   preventing office accidents, occupational safety aid, 9713  
   prevention, Public Health Service research grant projects, references to publications, 8645  
   work accident costs, 9718  
   work injuries, facts and figures, 1070  
   see also Aircraft accidents—Mine accidents—Motor vehicle accidents—Railroad accidents—Safety of life—Spacecraft accidents.  
 Acclimatization:  
   acclimatization versus tolerance to stress, annotated bibliography, 17363  
   high altitude, cardiopulmonary responses of resting man during early exposure, 7413  
 Accountants:  
   career opportunities with Civil Aeronautics Board, 17448  
   examination announcements, 199, 201, 4390, 4393, 16067, 16069, 16074  
   discontinuance notice, 7535  
   Federal Credit Unions Bureau, opportunities, 6246  
   machine 3 & 2, Navy training course, 7018  
   pay, national survey, 2507  
 Accounting, see Accounts and accounting.  
 Accounting machines, current industrial reports, 8942, 10356, 16000  
 Accounts and accounting:  
   accounting and finance manual, DSA, 979, 13913-914, 17693  
   accounting series releases, SEC, 2983  
   air carriers, certificated, uniform system, 3993  
   automatic accounting in USSR computer centers, 1340  
   Bulgarian scientific organizations, operating under their own systems, decrees, 5030, 6586  
   certificated route air carriers, uniform system, 8972, 13419  
   code of Federal regulations, 6266  
   commercial banks, accounts and deposits, June 30, 1966, national summary, 6247  
   Communicable Disease Center, Bureau of State Services, accounting system review, GAO report, 1101  
   cost accounting—  
     scientific research institute, USSR, 16786  
     scientific research organizations, USSR, 1343  
   Federal agencies—  
     accounting forms, GAO guidance manual, 11143

Accounts and accounting—Continued  
 Federal agencies—Continued  
   policies and procedures, GAO guidance manual, 11142  
   principles and standards, 12585  
   submission of systems for GAO approval, hearing, 737  
   transportation, GAO guidance manual, 3370  
   GAO review (periodical), 3371  
   intercoastal shipping, accounting at expiration of rate suspension, hearings, 16337  
   joint financial management improvement program, annual report, 11144  
   NASA guidelines for evaluation of contractor accounting systems, 6705  
   national income and product accounts of United States, 1929-65, statistical tables, 1829  
   public school accounting principles, 16509  
   telephone companies, uniform system of accounts, FCC rules and regulations, 3278  
   your career in Bureau of Accounts, Treasury Department, 5576  
 Accounts Bureau, your career in Bureau of Accounts, Treasury Department, 5576  
 Acetazolamide, low doses to aid accommodation of men to altitude, 1736  
 Acetic acid:  
   description, etc., technical reference, 9738  
   electron optical survey of iron oxide films produced in H<sub>2</sub>O, LiOH, and LiOH/EDTA solutions, 8594  
   Acetic anhydride, description, etc., technical reference, 9739  
   Acetylene black in hydrazine, study of thixotropic suspensions, 11679  
   Achievement, superior academic standard, in certain civil service examinations, amdt., 7531  
   Achievement tests:  
     constructing and using, guide for Navy instructors, 1544  
     used in health examination surveys of persons aged 6-17 years, study, 13098  
   Acid mine drainage, see Mine drainage.  
 Acids:  
   acid-base balance in anesthetized dog, hydrazine effect, 7359  
   Swiss research, 12733  
   see also names of acids.  
   Ackerman, Marilyn J., mineral industry of West Virginia, 6670  
   Ackerman, Miss.:  
     District Court, eastern division of northern district, terms to be held—  
       law, 16138  
       report, 12379  
   Acoustic velocity meter, report on system development and testing, 14167  
   Acoustics, see Noise—Noise suppressors—Sound.  
   ACP, see Agricultural conservation program.  
   ACR series, 11669, 13030  
   Acreage allotments, see Agricultural products—also names of products.  
   Acreage marketing guides, 962, 2134, 4661, 6127, 7828, 10872, 16441  
   Acrylic plastics, see Plastics.  
   Acta geographica Sinica (Chinese periodical):  
     translations, 1943  
   Actin, polymer differing from F-form, USSR discovery, 12713  
   Actinomycin, effect of actinomycin 2703 on stabilization of conditioned reflexes and transition from short-term to long-term memory, USSR study, 1338  
   Action, program guide 1967-68, 17121  
   Actions at law:  
     judgments, Justice Dept. policies and procedures, GAO review, 11154  
     litigation releases, Securities and Exchange Commission, 3516

Actions at law—Continued  
 multidistrict litigation, provide pretrial consolidation—  
 hearings, 6119, 7821  
 report, 13833  
*see also* Appeals—Civil procedure—Habeas corpus.

Activation, *see* Heat of activation.

Activation analysis, *see* Radioactivation analysis.

Activity patterns of campers, 8071

Acts of Congress, *see* Law.

Actuarial notes, 1603, 5501, 7115-17, 11792, 14644, 15736

Actuarial services for dental service corporation, 11714

Actuarial study series, 7118, 8686, 10082

Actuaries Board, retirement and disability fund, 1965, report, 4489

Actuators:  
 device schedules rate of valve closure, 6840  
 single olefin, fuel and oxidizer valve assembly employs, 9825B

Acuity:  
 and phoria among submariners, longitudinal study, 12791  
 visual, binocular, of adults, by region and selected demographic characteristics, United States, 13099

Acute conditions, incidence and associated disability, United States, July 1965-June 1966, 14637

Ad Hoc Panel on Seyllac, report, 13347

Adam Weisa Peak quadrangle, Wyo., geology, 2360

Adams, Bert K., principles of public school accounting, 16509

Adams, Ernst W., theoretical solution of nonlinear problem of transient cooling of opaque sphere in space, 14458

Adams, Herman, relief, 330

Adams, James W., and others, relief, 600, 13777

Adams, Jimmie D., study of man in oxygen-helium atmosphere, major and minor atmospheric components, 89

Adams, John G.:  
 addresses, etc.—  
 Feb. 28, 1967, 7519  
 Apr. 24, 1967, 8975  
 Apr. 28, 1967, 8974  
 July 5, 1967, 12097

Adams, Walter:  
 government, universalities, and international affairs, crisis in identity, 10516  
 strategic importance of Western Europe, 5614

Adams County, Pa., soil survey report, 13123

Adams County, Wash., soil survey report, 18212

Adams Manufacturing Co., relief, 330

Adaptation, *see* Dark adaptation.

Adaptation to visual and nonvisual rearrangement, 5167

Adapters, line adapter provides quick disconnect under moderate side loading, 15535

Addicott, W. O., zoogeographic evidence for late Tertiary lateral slip on San Andreas fault, Calif., 17827

Addicts, *see* Narcotic addicts.

Additives, jet fuel anti-icing, effects on fuel tank linings, final report, 9991  
*see also* Food additives.

Addor, Eugene E., environmental characteristics of tunnels in South Vietnam, 15229

Addresses (mail matter), *see* Mail matter.

Addresses, lectures, etc.:  
 AEC Speakers Bureau for Washington Metropolitan area, availability of speakers, 5798  
 by—  
 Adams, John G., 7519, 8974-75, 12097  
 Allen, David B., 13047  
 Andrews, A. M., 7522  
 Andrews, Archie M., 6465, 11228

Addresses, lectures, etc.—Continued  
 by—continued

Baker, John A., 4095, 4109, 13208, 13238-239, 13240, 15875

Barr, Joseph W., 1656, 2949, 2955, 5571, 10122, 11884, 17265, 17269, 18242, 18245

Barrett, Ashton C., 7968-69

Battle, Mark, 2484, 47208

Beckman, Norman, 16707

Bekkedahl, Norman, 9935

Bennett, Robert L., 15322

Berkner, Lloyd V., 5281

Bird, Kermit, 12458

Blaplinghoff, Raymond L., 5280

Boehm, Charles F., 10455-156, 16098

Borum, Rodney L., 10327, 10333-334

Boyd, Alan S., 1950

Brenner, Edward J., 2789, 5372, 10020, 11683, 11689, 14601

Brenner, F. Cecil, 9946

Brezhnev, Leonid I., 9317

Bridwell, Lowell K., 238, 1952-53

Brimmer, Andrew F., 1065, 2265, 6300, 7999-8000, 9493, 11050, 11053, 11056, 14037, 15249, 16590

Brzezinski, Zbigniew, 14676

Bundy, William P., 17220

Cass, Millard, 5039, 11295

Cassell, Frank H., 10945, 12473

Conklin, Maxwell R., 181

Connell, Michael L., 10049

Connor, John T., 223, 239-242, 1937, 1954-60, 4449-50, 8010

Cortright, Edgar M., 8514

Crafts, Edward C., 4914

Cushman, Bernard, 18088

Cusick, Leo J., 9583

Cusimano, John P., 17392

Daane, J. Dewey, 1067, 4784, 16598

Davis, Ross D., 6158, 10904, 13934

Davis, True, 1654, 5574, 7210-11, 7214, 11886, 15810

Day, James V., 6259, 16579

Deming, Frederick L., 2946, 2953, 17270, 18241

DiLuzio, Frank C., 16719

Eberhard, John P., 2735

Eckler, A. Ross, 1889, 10383

Fanning, John H., 9949, 15596

Faulkner, Rafford L., 10316

Fay, Joseph L., 15737

Fay, William T., 4304

Feer, Mark C., 1936

Flood, Daniel J., 526

Fogel, Sander H., 8045

Fowler, Henry H., 1653, 1655, 1657, 2950, 2952, 2954, 2956-57, 5573, 7212-13, 8775-77, 10120-121, 10124, 11883, 14709, 17271-272, 18243

Fox, Lawrence A., 2418, 17854

Freeman, Orville L., 22-26, 51-52, 1676-77, 1694, 1696, 1719, 4091-94, 4108, 4119, 4142, 7257-58, 7268, 7280, 7295-96, 8821-24, 10158-160, 10163, 10196-198, 13209, 13218-220, 13240-243, 15834-835, 15846, 15876-877

Fumich, George, jr., 8997

Furness, Betty, 11701

Gardner, John W., 2377

George, J. Mishell, 2416

Giles, Robert E., 4426, 5958

Gillies, Roderick M., 4447-48

Gilliland, Whitney, 1898, 8971, 17447, 17449

Goddard, James E., 13162

Goddard, James L., 14075

Goodwin, Robert C., 6204, 12474, 16515

Goodyear, Hugo V., 5593

Gulbert, Edward A., 236, 1951

Gulick, J. W., 6626-27, 9751, 12787, 17907-908

Gullander, W. P., 8616A

Haar, Charles M., 16714

Addresses, lectures, etc.—Continued  
by—continued

Haddon, William, jr., 1940, 1963-64, 4423, 5959  
Hagan, Robert L., 4304  
Hamburger, Richard, 1819  
Harlee, John, 2246, 7971-72, 9456, 16577-578  
Harvey, Thomas W., 10905, 16477, 16479  
Hearn, George H., 6258, 6260, 7970, 11016  
Hedges, Janice N., 8796  
Hollomon, J. Herbert, 243-244, 4429, 4452, 7568, 7583-84, 12128-130  
Horne, John E., 7060, 9452, 17756  
Howe, Harold, II, 996, 998, 1004, 1006, 1015, 2179, 2188, 2192, 6177, 6179-80, 9403-4, 9407-8, 9412, 10935, 12462-464, 13957, 13965, 15210, 15214, 16505, 16512, 17716  
Hummel, Don, 6436, 16715  
Humphrey, Hubert, 1961, 4455, 5446, 9580, 14209, 15317, 17839  
Humphrey, Thomas F., 5478  
Ink, Dwight, 17842  
Ioanes, Raymond A., 4818  
Jenkins, Howard, jr., 14525, 15593  
Johnson, Hugh A., 12461  
Johnson, Nicholas, 16564  
Johnson, Wilfrid E., 131, 1817, 7441, 8014, 17407  
Katz, Jacob E., 144, 8924, 10329, 15985  
Katzenbach, Nicholas deB., 10099, 18231  
Kaye, William G., 1825  
Ketchum, Harry W., 5807  
Keyserling, Mary D., 1668, 8798, 10142, 11908, 17296  
Klennan, Owen B., 14853  
Kincaid, John F., 16001, 17472  
Kohler, Foy D., 10039  
Kromer, George W., 4704-5  
Kurylo, Walter, 1962  
Lang, A. Scheffer, 4451  
Lattu, Ounle P., 5366, 17101  
Lauriat, Patience, 1880  
Lindley, Jonathan, 13929  
Low, George M., 5498  
Luce, Charles F., 8208, 8210  
Ludwig, John H., 2836  
McCahill, William P., 11702, 13068, 18140, 18142-143  
McGuire, Marie C., 17843  
Mackenzie, Vernon G., 8036  
McNamara, Robert S., 4527  
McNeill, Robert L., 226  
McQuade, Lawrence C., 224, 228, 237, 1965, 4425, 4427, 7571, 9012, 9025, 10452, 12127, 13468, 17473, 17483  
Macy, John W., jr., 1932  
Maisel, Sherman J., 1060, 1064, 4781, 7996, 9496  
Martin, Wm. McC., jr., 4787, 11058, 12536  
Megonnell, William H., 1580  
Mehren, George L., 30, 13210, 15844  
Middleton, John T., 8640, 13072  
Mitchell, George W., 1068, 2261, 4786, 6207, 9494, 11052, 15248, 16503  
Moffett, Roy R., 12785  
Moore, J. Cordell, 17847  
Morgan, Roy L., 1949  
Morton, James G., 4424, 4428, 7561, 7582, 9009, 9011  
Mossinghoff, Gerald J., 13048  
Murphy, Charles S., 1900, 8968, 8973, 12096, 16049  
Murphy, Richard J., 13057, 14611  
Murphy, Robert T., 186, 189, 489, 4368, 5911, 7523, 13420, 17445-446  
Nabrit, Samuel M., 4242, 7435, 8917, 12020, 12025  
Nehmer, Stanley, 10470, 16111  
Nesbitt, John A., 11705

Addresses, lectures, etc.—Continued  
by—continued

Newell, Homer E., 6913  
O'Brien, Gerald D., 5370, 7031, 14603-605  
O'Brien, Lawrence F., 1555-56, 7038, 7106, 8675, 11697, 11690-691, 13049, 14610, 15643, 17109-110, 18135  
O'Connell, Joseph J., jr., 13015, 18092-93  
Oettinger, Katherine B., 1893  
O'Malley, Lambert S., 17708  
Ordman, Arnold, 6937  
Owens, James M., 142, 5806  
Pearl, Robert B., 5885  
Peterson, Esther, 6588, 16796  
Pollack, Gerald A., 5964, 7585  
Pollack, Herman, 14671  
President Johnson, 1626, 2256, 2734, 2880, 4780, 12195, 18228  
Prisk, Charles W., 5475  
Ramey, James T., 8919, 10313  
Rand, Robert L., 7961, 17755  
Rauner, R. M., 7870  
Rettie, Dwight F., 16713  
Robertson, J. L., 2263, 12531  
Rostow, Eugene V., 18232  
Roth, William M., 14663, 18218-220  
Rusk, Dean, 1628-29, 2882, 18229  
Russell, Harold, 17125  
Schmidt, Wyman C., 4829  
Schnellbacher, E. E., 4920, 8224  
Schnittker, John A., 27, 1695, 4090, 4101, 4141, 7259, 7269, 13244, 13253  
Schoppert, David W., 4453  
Seaborg, Glenn T., 130, 132-135, 1815, 1818, 4240, 4243-44, 4246-47, 5799, 7438-39, 8915, 8918, 10305-307, 10310, 10315, 10318-319, 12021-23, 15970, 15972, 15974-976, 17401-402, 17404  
Seamans, Robert C., jr., 2733  
Seeley, David S., 4718  
Shapiro, Karl, 12780  
Shaw, William H., 235, 1966, 5949-50, 7565, 7570, 10453, 13453, 17471  
Shepardson, Charles N., 1061, 1069, 6298  
Sherwin, Chalmers W., 10457  
Sielski, Matthew C., 7567  
Sierra, Teresa, 11700  
Slisco, Joseph J., 5530  
Solomon, Anthony M., 2936  
Sternlight, Peter D., 2951  
Stewart, William H., 7080, 10045  
Surrey, Stanley S., 7215, 8769, 10117, 10123, 10125, 13165  
Taeuber, Conrad, 4357  
Tape, Gerald F., 1813, 8916  
Tarjan, George, 7048  
Taylor, H. Ralph, 2379, 2386, 11198, 17841  
Thayer, Louis M., 18094  
Thompson, John W., 4703, 12459  
Tison, James C., jr., 12116  
Trowbridge, Alexander B., 227, 234, 245, 5948, 5957, 5960, 7569, 7581, 9022-23, 10449-451, 10454, 10464, 10466-468, 10471, 12126, 16092-96, 16109, 17469  
Truman, Harry S., 1059  
Turner, Francis C., 8663  
Tuten, J. Russell, 16090  
Udall, Stewart L., 6439, 15324  
Wallace, Robert A., 18244  
Walsh, Don, 1602  
Walsh, Robert M., 12460  
Washington, George, 5976  
print additional copies, report, 2018  
Weaver, George L-P., 8283  
Weaver, Robert C., 9581, 11196-197  
Webb, James E., 17022, 18059  
Welsh, Edward C., 1516  
West, Quentin M., 16496  
White, Robert M., 7937  
Whitton, Rex M., 2844

# INDEX 1967

## Addresses, lectures, etc.—Continued

by—continued  
 Williams, James D., 11716  
 Wirtz, W. Willard, 1349, 1353-54, 5033, 5037-38, 6589  
 Wood, Robert C., 11209, 16716  
 Yolles, Stanley F., 8655  
 Zagoria, Sam, 2750, 6939, 8532, 12993, 17043-44  
 FMC SP series, 2246-47, 6258-60, 7968-73, 9456, 11016, 16577-579  
 MA SP series, 6626-27, 9751, 12787-794, 17907-908  
 National Conference on State Technical services, 12131  
 plastics in Government, 4 conference papers, Society of Plastics Industry, 2155  
 public papers of Presidents of United States, announcement and order form, 8622  
 Addressing machines, digital control computers for automatic addressing of goods, USSR book excerpts, 15383  
 Adelberger, Howard H., and wife, relief, 7618  
 Aden, geology, 8173  
 Aden, Gulf of, sailing directions, 9971  
 Adenoviruses, human, tumorigenic action, USSR study, 6560  
 Adeorbidae, *see* Gastropods.  
 Adhesive tape, pressure-sensitive and gummed, inspection, sampling, and testing methods, Federal standard, 9499  
 Adhesives:  
   Federal item identification guides for supply cataloging, supplements, 3290  
   for polyester films cures at room temperature, has high initial tack, 2631  
   polyurethane, use of nonwoven glass fiber mat to reinforce, 11450  
   resistance heating releases structural adhesive, 8469A  
   resorcinol-resin, gluing ammonium-salt-treated southern pine, 8063  
   survey, 5195  
   uniaxial creep, measurement in free film form, 12570  
   viscous, flowmeter determines mix ratio, 17988  
 Adirondack-type shelter, 10186  
 Adjustment Board, National Railroad, *see* National Railroad Adjustment Board.  
 Adjutant General's Office:  
   Army Library—  
     selected current acquisitions, 3864  
     selected periodical literature, 3867  
 Administration, *see* Administrative management.  
 Administrative agencies, *see* Government offices.  
 Administrative Conference of United States: appropriations, 1968—  
   hearings, 6027, 10806  
   report, 9097  
 Administrative facilities, Navy Dept. design manual, 17065  
 Administrative management:  
   Air Force, laboratory policies and practices for procurement management, pamphlet, 13261  
   and computers, USSR study, 6506  
   aviation maintenance 1 & C, Navy training course, 7011  
   calling all majors for administrative careers in Federal agencies, 10431  
   civil defense management textbook, 16056  
   civilian manpower management, Journal of Navy civilian personnel management, 8602  
   contractor data and reports, 5702  
   cost, source of funds, expended for public assistance payments, 4752  
   data processing management in Federal Government, hearings, 16328

## Administrative management—Continued

Defense Department, correspondence course offered by Industrial College of Armed Forces, information booklet, 9607  
 defense traffic management handbook, 6142, 10889  
 dental administration, Navy manual, changes, 8576, 14584  
 DoD nationwide priority referral system, improved management, 2152  
 farm programs, operation and administration, problems and complaints, hearings, 10799  
 Federal administrative and management positions, examination announcement, discontinuance notice, 10424  
 food service management, Air Force manual, 8857  
 free management assistance publications, list, 5492  
 GREMEX, new management training concept, 9852  
 management and marginal employee, personnel practices, etc., 2242  
 management and technical aid for displaced small businesses, 14643  
 management course presentations, 13115  
 management course program, topics, 1598, 7109  
 management information, blueprint for tomorrow (address), 4119  
 manpower, improved management in Federal Government, 12209  
   print as House document, report, 12280  
 manpower rotation policy models, 7404  
 military personnel policies, digest, Army pamphlet, 17382  
 NASA management issuances—  
   indexes, 11395, 15496  
   table of contents, 15513  
 Naval Personnel Bureau, personnel administration, functions, etc., 11661  
 Navy management review (periodical), 3614  
 PACAF basic bibliographies—  
   management, excluding personnel, 10228  
   personnel management, 10230  
 packaging administration, Army field manual, 15938  
 personnel, code of Federal regulations, 6292  
 personnel information bulletin of VA, 3681  
 personnel literature, 3682  
 personnel management, pay, national survey, 2507  
 personnel management series, 14871  
 Personnel Management Training Center, curriculum, administration, etc., 4405  
 personnel practices in public institutions for delinquent children, survey, 4367  
 perspectives in defense management (periodical), 12658  
 progress interview, helps for management in counseling people about their work, 6373  
 public management sources, 3784  
 public works management, Navy, 2781  
 records management and services, procedures, GAO guidance manual, 6374  
 research equipment for Federal laboratories, better management, procurement, and utilization, hearing, 15028  
 river basin operations, alternative institutional arrangements for managing, 17292  
 school plant management series, 16499  
 second level management, review and analysis, 13450  
 senior level positions, examination announcement, 8988  
 shelter management, civil defense textbook, 16057  
 small business—  
   management aids for small manufacturers, annual compilation, 2854



- Administrative management—Continued  
small business—continued  
management series, 2857, 13118  
starting and managing series, 5497,  
8679, 15733
- Small Business Administration, free man-  
agement assistance publications, list,  
18202
- staff, examination announcement, 16068
- Treasury Department, progress in man-  
agement improvement, report, 5572
- Veterans Administration—  
hospitals, research bulletin, 11890  
management internships, 8781
- Vis-A-Plan technique provides perform-  
ance-time scale, 15531
- Administrative Office of United States  
Courts:  
annual report, 8800
- Federal Judicial Center, establish—  
hearings, 16422  
report, 12258
- Administrative personnel, *see* Administrative  
management.
- Administrative procedure:  
act—  
amend, hearings, 13871  
codify provisions of public law 89-487—  
law, 12165  
reports, 7707, 10780  
public information section, Attorney  
General's memorandum, 12762
- District of Columbia government, pre-  
scribe, report, 9130
- Government offices—  
administrative delay evaluation charts,  
4647  
delay in proceedings, questionnaire sur-  
vey, 2130  
Investigation—  
authorization, report, 4616  
expenses, report, 15099  
report on findings, 9280
- Administrators:  
administrative staff, examination an-  
nouncement, 16068  
definition under fair labor standards act,  
1665
- Federal Aviation Agency representatives,  
FAA regulations, 11004
- Admiral's House, quarters of chiefs of naval  
operations, history, 9976
- Admittance (electricity), *see* Impedance.
- Adolescence, *see* Youth.
- Adoptions in 1965, supplement to child wel-  
fare statistics, 16043
- ADP Management Training Center, manage-  
ment of automatic data processing in Fed-  
eral Government, training programs, 16062
- Adrenal glands:  
airmen who apply insecticides from air-  
craft may suffer ill-defined effects, 17410  
rate of function, effect on parotid fluid  
uric acid levels, 11959
- Adsorbents, coal and modified coals, use for  
removing organic contaminants from waste  
waters, 2588
- Adsorption:  
carbon dioxide—  
of anthracite, surface area studies, 1412  
on carbon solids, 5351  
carbon-14 labeled stearic acid on iron,  
study, 14595  
effect of adsorbed water upon spreading of  
organic liquids on soda-lime glass, 18110  
environmentally modulated process for  
desalting water, 8212  
organic compounds, at electrodes, 10003
- Adult education, *see* Education.
- Adults:  
binocular visual acuity, by region and  
selected demographic characteristics,  
13099
- civil defense education, personal and fam-  
ily survival, teachers manual, changes,  
7916, 12470
- Adults—Continued  
decayed, missing, and filled teeth in adults,  
1960-62, United States, 5470  
mean blood hematocrit, 10069  
osteoarthritis, demographic characteristics,  
5468  
serum cholesterol levels, 8661
- Advanced Study in Health Sciences, Inter-  
national Center for, *see* International Cen-  
ter for Advanced Study in Health Sciences.
- Advanced threshold reduction techniques  
study, 6716
- Adverse action, law and regulations, an-  
notated, 3300
- Advertising:  
alert, 2989  
consumer confidence, important (re-  
marks), 241  
consumer response to various levels of  
advertising for fluid milk, 17322  
deceptive, trade regulation rule relating  
to sizes of viewable pictures, shown by  
television receiving sets, 6337, 11068  
medical, compendium, 14074  
network TV, anticompetitive effects of  
sale, hearings, 10557, 16424  
outdoor, along Federal-aid highways, con-  
trol, 1968 authorizations—  
hearings, 15174  
reports, 15126, 16272  
pacemaker of business expansion and bet-  
ter business practice (remarks), 7582  
retail stores, bibliography, 5494
- Advisory Commission on Information:  
report, 1966—  
departmental edition, 13190  
document edition, 13550
- Advisory Commission on Intergovernmental  
Relations:  
act establishing, amend, law, 446  
annual report, 7240  
appropriations, 1968—  
hearings, 6027, 10806  
law, 13529  
reports, 9097, 10791  
general information, 13191  
metropolitan America, challenge to Fed-  
eralism, study, 2048  
print additional copies, reports, 10590,  
10785
- State legislative program, 15822
- study—information service to aid partici-  
pation in federally assisted programs,  
hearings, 4639
- Advisory Commission on International Edu-  
cational and Cultural Affairs, report, 4th  
annual, 4487
- Advisory Committee on HEW Relationships  
with State Health Agencies, report, 6413
- Advisory Committee on Older Americans,  
declaration of objections for Older Ameri-  
cans under title 3, Older Americans act,  
10145
- Advisory Committee on the Arts, report on  
cultural presentations, USA, 17226
- Advisory Committee on Voluntary Foreign  
Aid, reports of American registered agen-  
cies, 2419, 12655
- Advisory committees, PHS public advisory  
groups, authority, structure, functions,  
2831, 11750
- Advisory Council on Extension and Contin-  
uing Education, *see* National Advisory  
Council on Extension and Continuing  
Education.
- Advisory Council on Historic Preservation:  
establish—  
law, 384  
report, 673
- Advisory Council on International Monetary  
and Financial Policies, *see* National Coun-  
cil on International Monetary and Finan-  
cial Policies.
- Advisory Council on Programs Relating to  
Population Growth, establish, report,  
13337

- Advisory Council on State Departments of Education, annual report, 13961
- Advisory Health Council, National, *see* National Advisory Health Council.
- Advisory, monthly newsletter from Office of National Councils and Organizations to advisory councils, 2990
- AE-CL series, 3091
- AEC, *see* Atomic Energy Commission.
- AEC-NASA tech briefs, 5139-56, 6695-6704, 8384-8404, 9793-98, 11390-392, 12832-845, 14363-369, 15485-491, 16877-887, 17919-932
- AEF, *see* American Expeditionary Forces.
- Aeneas quadrangle, Wash., eastern part, geology, 16682
- Aeration, capacity of streams, 9570
- Aerial dispersal of pink bollworm in U.S. and Mexico, 5678
- Aerial mapping:
  - airborne infrared mapper as tool for detecting and measuring fires, 8106
  - image interpreter map displays, chip versus hard copy, 4224
- Aerial photogrammetry, *see* Photogrammetry.
- Aerial photography:
  - ASCS maps, status, 15833
  - detection and classification of ash dieback on large-scale color aerial photographs, 8116
  - forester's guide to photo interpretation, 4097
  - Gemini IV mission, terrain photography, 11528
  - large scale 70-mm photographs, wedge measures parallax separations, 16659
  - soils, aerial-photo interpretation in classifying and mapping, 4096
- techniques for—
  - estimating damage by insects in western forests, 14078
  - recreation inventory of mountain lakes and streams, 14128
- television cloud photography, meteorological satellite data—
  - ESSA 3, 16536
  - TIROS IX, 6227
  - TIROS X, 13990
- worldwide use of airphotos in agriculture, 17304
- Aerial radiological measuring survey:
  - aeroradioactivity—
    - Sedan project 62.80c, 12002
    - Small Boy project 62.80b, 12001
  - aeroradioactivity and areal geology—
    - Pittsburgh area, 1779
    - southeastern New York and southern New England, 1778
    - Orlando area, 1780
    - Parr area, S.C., 1781
    - Project Sedan aerial radiometric survey, 7426
- Aerial spraying, *see* Sprays and spraying.
- Aerial surveys, waterfowl counts 1961-66, factors influencing, 15268
- Aero Trucking, Inc., motor carrier accident, 16875
- Aeroballistic launch vehicles, *see* Spacecraft.
- Aerobee rockets, *see* Rockets.
- Aerobic-bacteria culture apparatus employing new foambreaker, 10007
- Aerodynamic heating:
  - correlation of free-flight turbulent heat-transfer data from axisymmetric bodies with compressible flat-plate relationships, 5272
  - Project Mercury spacecraft afterbody, flight test data compared with prediction methods, 14372
- Aerodynamics:
  - characteristics—
    - cone-cylinder-frustum-cylinder configurations, 9804
    - spherically blunted cones, 14488
- Aerodynamics—Continued
  - characteristics—continued
    - tension shell shapes, configuration modifications effects, 14475
  - computer program simplifies transient and steady-state temperature prediction for complex body shapes, 9825A
  - decelerators, wakes, their structure and influence upon, 9808
  - flow prediction in shock layer over bodies at small angles of attack, methods, 11507
  - gas dynamics—
    - calculation of installation with light piston, USSR study, 4999
    - methods of high-speed measurement, 4997
  - hypersonic characteristics of minimum-wave-drag bodies having variations in cross-sectional shape, 16971
  - hypersonic performance of minimum-wave-drag bodies, 1515, 12968
  - loads and dynamic response of rotor blades of tandem-rotor helicopter, predicting, 13310
  - longitudinal characteristics of high-drag bodies, 9892
  - optimum body shapes at hypersonic speeds, studies, 18024
  - pressures and forces of flare-stabilized bodies in air and in mixture of 85-percent CO<sub>2</sub> and 15-percent air, 17011
  - spherically blunted cones with base flares, characteristics, 1486
  - static characteristics, ablating conical teflon models, measured and computed, 11555
  - static longitudinal characteristics of decelerator test vehicle, 6897.
  - supersonic handbook, 1542
  - supersonic, viscosity and heat transfer effects, handbook, 1542
  - testing of airborne lightweight high-efficiency radial fan, 10292
  - transonic characteristics of supersonic fighter-bomber airplane model with external fuel tanks and other modifications, 1505
  - transonic investigation of tension shell and blunted 100° conical shapes for unmanned entry vehicles, 1504
  - unidimensional problems in gas dynamics, numerical solution, characteristics method, application, 14500
- see also* Aircraft—Airplanes—Boundary layer—Drag (aerodynamics)—Flight—Flow—Flutter (aircraft)—Heat transfer—Helicopters—Lift (aircraft)—Spacecraft—Wings (aircraft).
- Aeroelasticity, divergence characteristics of unguided, slender-body, multistage launch vehicles, 9883
- Aeroembolism:
  - calisson disease, prevention and treatment, USSR study, 8238
  - decompression sickness in high-altitude flight, 14778
  - measures for providing safe working conditions during calisson operations described, USSR study, 6524
- Aeromagnetic maps, surveys, etc., *see* Maps and charts.
- Aeromedical reviews, 4174, 7340, 11953, 14769
- Aeronautical and Space Sciences Committee, Senate:
  - calendar, 3488
  - committee prints, 4628, 7791
  - hearings, 6088-89, 7790, 9299, 10796-797, 12396
  - investigations and studies, aeronautics and space activities, authorization, report, 4605
  - report, 12390
- Aeronautical charts, *see* Maps and charts.



Aeronautical instruments, stall barrier as new preventive in accidents, 1823

**Aeronautical supplies:**  
 aircraft type certificate data sheets and specifications, 3018, 12487  
 coordination between procurement of technical equipment and its ultimate utilization, FAA, GAO review, 2346  
 hi-valu parts, management by Pacific Air Forces bases, GAO report, 8133  
 inventory accounting systems for aeronautical equipment, Navy Dept., GAO review, 16676

**Aeronautics:**  
 activities of Federal departments, etc., investigation, authorization, report, 4605  
 air cargo services (remarks), 189  
 air traffic patterns for IFR and VFR aviation, 17740  
 air transport—  
     industry development (remarks), 186  
     possible impact of Transportation Department (address), 17449  
 air transport services, agreement with—  
     Austria, 2905  
     Peru, 2912  
     Union of Socialist Republics, 5552  
 air transportation facilities, Rapid City, S. Dak. (remarks), 12097  
 alman's information manuals, 3020-23, 10976-978  
 Army aviation—  
     digest, 2996  
     meteorology applicable, technical manual, change, 7390  
     utilization, field manuals, 4203, 15935  
 aviation news (periodical), 3257, 9440  
 aviation radio services, FCC rules and regulations, 3275  
 chart updating manual, 3212  
 chronology on science, technology, and policy, 1441  
 civil aviation—  
     accidents, briefs (periodical), 7518, 13014  
     accidents, summary reports (periodical), 3923  
     Government publications, list, 7059  
     oxygen equipment, physiological protective efficiency, techniques for evaluating, development, 15979  
 code of Federal regulations, 7977, 9462-63  
 communications and pilot services, ATS handbook, 2991  
 demand and airport facility requirement forecasts through 1980 for large air transportation hubs, 15904  
 divisional aviation battalion and group, Army field manual, 10259  
 education services and resources, list, 9438  
 FAA statistical handbook of aviation, 4756  
 Federal aviation act, coordination of unlike modes of transportation (remarks), 1898  
 Federal aviation act of 1958—  
     enforcement procedures, regulations, 10986, 14001  
     rule making procedures, FAA regulations, 1039, 12489  
 Federal aviation regulations, 1038-41, 2234-37, 4757-59, 6238-41, 7947-51, 9441-44, 10986-11005, 12488-498, 14000-11, 15237-238, 16551-557, 17743-746  
     status, 12501  
 general aviation accidents, small fixed-wing aircraft, briefs (periodical), 3063  
 international notams, 3437, 9445  
 joint financing of air navigation services in Iceland, agreement with other governments, 7158  
 memorandum for aviators, 3548  
 naval aviation news, 3605  
 naval aviation safety review, 3036

**Aeronautics—Continued**  
 news of Soviet aviation and cosmonautics, 1311  
 notice to aviators, Navy, 3640  
     index, 9967  
 oxygen in general aviation, 4250  
 PACAF basic bibliography, 4169  
 Pacific airman's guide and chart supplement (periodical), 3668, 12500  
 partial revision of radio regulations, with additional protocol—  
     report, 13726  
     text, 7772  
 personnel, training program, establish, study, 16480  
 problems in aviation meteorology, USSR studies, 1335  
 research and development policy, hearings, 7790  
 research, investigation—  
     authorization, report, 7671  
     expenses, report, 10554  
     rules of practice in economic proceedings, CAB procedural regulations, 7520  
     speaking of space and aeronautics (series), 2733-34, 5280-81, 9932, 17022, 18059  
     survey, Air Force Academy Library bibliography, 10207  
 United States activities, annual report, 5994  
 weather procedures, handbook, changes, 4188, 16548  
 see also Flight—also certain headings beginning Air.

**Aeronautics and Space Administration, National, see National Aeronautics and Space Administration.**

**Aeronomy, polar region studies, USSR, 8277**

**Aerophotography, see Aerial photography.**

**Aerosols:**  
 bacterial, microbiological studies, 11290  
 bacteriologic evaluation, man in oxygen-helium atmosphere, 84  
 radioactive, filter pack technique for classifying by particle size, 10017  
 Aerospace, see Outer space.

**Aerospace biology, see Biology.**

**Aerospace maintenance safety, 2992**

**Aerospace medicine, see Medicine.**

**Aerospace Research Office:**  
 directory of key staff offices and laboratories, 7334  
 general information, 11968  
 index of research results, 17342  
 monograph series, 15890  
 OAR Research Applications Conference, proceedings, 7337  
 OAR series, 7335-37, 15888-889, 17342  
 research objectives, 1967, physical sciences, engineering sciences, environmental sciences, life sciences, 7336  
 research resumés, 15888  
 research review (periodical), 3827  
 Aerospace safety (periodical), 2993  
 Aerospace vehicles, see Spacecraft.

**Aesthetics, and national interest (address), 12462**

**AET, mechanism of action of AET, protection of DNA against ionizing radiation by GED, 5713**

**AFCLR, see Air Force Cambridge Research Laboratories.**

**AFDC, see Families—Public assistance.**

**Affens, Wilbur A., flammability properties of hydrocarbon fuels, 17094**

**Afferent nerves, see Nervous system.**

**Afflicting the comfortable, 18140**

**Afghanistan:**  
 agricultural commodities, agreement, 17227  
 capsule facts for Armed Forces, 15909  
 mineral industry, minerals yearbook chapter, 6642  
 technical cooperation agreements, 5532, 7164, 15768

**AFL-CIO, see American Federation of Labor-Congress of Industrial Organizations.**

# INDEX 1967

- AFOSE**, *see* Air Force Office of Scientific Research.
- Africa:**
- African national developments, 4154
  - agricultural situation—
    - midyear reviews, 991, 16494
    - 1966 review and 1967 outlook, 10924
  - contributions to hydrology of Africa and Mediterranean region (series), 11189
  - development lending, investigation, authorization, report, 7718
  - East, establishing business in, 4444
  - labor digests, 8316
  - market profiles, 14880
  - mineral industry—
    - minerals yearbook chapter, 12805
    - regional review, minerals yearbook chapter, 12812
  - northwest, sailing directions, changes, 7001, 17071
  - problems and prospects, bibliographic survey, 13296
  - southeast coast, sailing directions, change, 9970
  - southwest coast, sailing directions, change, 18096
  - sub-Sahara, selected functional bibliography, 17210
  - translations, 3949
  - west coast—
    - lights and fog signals, list, changes, 1538, 5333, 11643, 18100
    - tide tables, 12120
  - see also* South Africa.
- Africa and Madagascar**, Agency for Safety of Air Navigation in, *see* Safety of Air Navigation in Africa and Madagascar Agency.
- African swine plague**, *see* Swine plague.
- Africans**, tumors in alimentary tract, symposium, 14632
- AFSC**, *see* Air Force Systems Command.
- Afterbodies**, Project Mercury spacecraft flight test aerodynamic heating data compared with prediction methods, 14372
- Agar:**
- acetate differential, comparison with Sellers citrate-mannitol-agar, 10233
  - concentration in counting Clostridium colonies, 17346
- Agate Fossil Beds National Monument**, general information, 18090
- Age:**
- binocular fusion time, pilot vision considerations, effect of age, 4253
  - discrimination in employment—
    - prohibit, hearings, 9325
    - State laws, summary, 5050
- Age of transition**, rural youth in changing society, 17305
- Aged:**
- aging (periodical), 2995, 14732
  - aid for the aged, recommendations, message from the President, 12198
  - charges for care in institutions, 17169
  - consumer interests of the elderly, hearings, 9300
  - declaration of objectives for older Americans, is your community ready?, 10145
  - FHA mortgage insurance on housing for elderly, 6427
  - health insurance—
    - conditions for coverage of independent laboratories, 5502
    - extended care facilities—
      - directory, 15738
      - manuals, 5504, 7120
    - home health agencies, directory, 11793
    - home health agency manual, revisions, 8687, 18206
    - hospital manual, 10084
    - hospitals, directory, 11794
    - initial operating data, 5515
    - provider costs under medicare, reimbursement, principles, 5503
- Aged—Continued**
- health insurance—continued
    - services by hospital-based physicians under medicare, reimbursement principles, 7119
  - health insurance for the aged, HIM (series), 5502-4, 7119-20, 8687, 10084, 18206
  - health records system for nursing homes and homes for aged, organizational guide, 7072
  - health services—
    - housing for the elderly, Dexter Manor story, 5456
    - older Americans, costs and delivery hearings, 17633
  - housing—
    - loan program, information for applicants, 16712
    - minimum property standards, 9582
    - program for senior citizens in Nation's Capital, 11593
    - rental & co-op, loans for senior citizens in rural areas, 10194
    - senior citizens, loans through nonprofit corporations, 2383
  - income-tax treatment—
    - analysis of H.R. 5710, 6048, 16346
    - revise, hearings, 7763, 10684
  - medical care, social security—
    - amendments of 1965 enable District of Columbia to participate, hearings, 10645
    - amendments of 1967—
      - hearings, 15154, 16409
      - reports, 14953, 14964
      - summary, 15053
  - medical insurance, extend deadline for enrollment—
    - law, 16142
    - report, 16264
  - medicare—
    - almost 65? important information, 5510
    - hospital and medical insurance, 5511
    - meeting challenge of later years, guide to community action for senior citizens month, 1967, and year-round activity, 5802
  - middle-aged and older people, patterns of living and housing, 14634
  - needs for services revealed by Operation Medicare Alert, 937
  - net worth, 17200
  - new day for the older American, selected papers, 10146
  - nursing and personal care homes, employees, number, work experience, etc., 7098
  - nursing care of the aged, bibliography, 10056
  - older Americans act of 1965—
    - amend, hearings, 17669
    - amend, report, 914
    - amendments of 1967—
      - hearings, 12423, 15023
      - law, 13528
      - reports, 12272, 13809
  - older volunteers in Peace Corps, 5381
  - planning for the later years, 18207
  - population of United States, social security survey, 13126
  - rent supplement program, effects, hearing, 13838
  - retirement housing, western style (address), 17843
  - rural county cares for its aging, story of Atkin County, Minn., 4082
  - social security—
    - increases, reduction of retirement benefits—
      - hearings, 10798
      - report, 15144
    - special benefits for people 72 or over—
      - brief explanation, 2873
      - during last quarter of 1966, brief explanation, 10086

- Aged—Continued**  
VISTA, at my age?, 10914  
*see also* Aging.
- Aged, Special Committee on, Senate, hearings, 17633**
- Agee, Frank L., jr., equidistance judgments in vicinity of binocular illusion, 139**
- Agee, H. R., ultrasonic speaker for studies of acoustic sensitivity of tympanate moths, 4083**
- Agena, *see* Spacecraft.**
- Agency for Intercontinental Development, *see* International Development Agency.**
- Agents, *see* Foreign agents—Manufacturer's agents.**
- Ageton, Robert W.:**  
deep mine stress determinations using flatjack and borehole deformation methods, 6676  
stress ellipsoid determination, in rockburst-prone area at 4,000 foot depth, Galena mine, Wallace, Idaho, 14351
- Aggregate:**  
coarse, crushed limestone, 3- and 6-in. maximum size, contained in mass concrete, comparison of properties, 4745, 6216  
larger than 1½ inch, testing, 6215  
mineral industry, Denver, Colo., area impact of urbanization, 6637  
urbanization and mineral aggregate industry, Tucson, Ariz., area, 5105
- Aging:**  
developments, 1966, report, 7789  
Federal financial assistance for projects in aging (series), 13192-194  
national conference of State executives, selected papers, 10146  
patterns for progress in, case study (series), 4082  
USSR theories, 4942  
*see also* Aged.
- Aging Administration:**  
research, demonstration, and development grants, 13192  
training grants, 13193
- Aging, Special Committee on, Senate:**  
committee prints, 937, 2104, 15144  
continuing authority, etc., report, 4614  
hearings, 2103, 9300, 10798, 13838  
report, 7789
- Agostino, Rosa, relief, 9240, 13504, 13595**
- Agostoni, E., forces deforming rib cage, 10238**
- Agreement on tariffs and trade, *see* General agreement on tariffs and trade.**
- Agreements (industrial), *see* Industrial agreements.**
- Agricultural adjustment act, *see* Agriculture.**
- Agricultural attache, his history and his work, 1084**
- Agricultural chemicals, *see* Chemicals.**
- Agricultural colleges, work of higher learning institutions in Soviet Union and German Democratic Republic, 6572**
- Agricultural commodities, *see* Agricultural products.**
- Agricultural commodity graders, *see* Graders.**
- Agricultural Conservation and Stabilization Service, aerial photography status maps, 15333**
- Agricultural conservation program:**  
forestry accomplishments, 1957-64, southeastern Ohio, 14135  
national bulletin, 7256  
progress, 1966 highlights, 14757  
summary, 1966 fiscal year, 5620
- Agricultural credit:**  
Bankhead-Jones farm tenant act, amend—law, 500  
reports, 910, 16368  
farm loan act, amend, report, 15130  
farm loan act, etc., text, 1983  
farm real-estate credit, analysis of borrowers and lenders, 2170
- Agricultural credit—Continued**  
sources of funds to meet farm credit needs (remarks), 1069  
*see also* Loans—Production credit associations.
- Agricultural economics, *see* Agriculture.**
- Agricultural education, *see* Agriculture.**
- Agricultural experiment stations, State, professional workers, 5622**  
*see also* names of particular stations, e.g. Alaska Agricultural Experiment Station.
- Agricultural extension specialists, examination announcement, discontinuance notice, 10422**
- Agricultural extension work, *see* Agriculture.**
- Agricultural finance, *see* Agriculture.**
- Agricultural hydrology, *see* Hydrology.**
- Agricultural implements, *see* Farm implements and machinery.**
- Agricultural insurance:**  
crop insurance—  
fieldman and supervisor, examination announcement, amdt., 5921  
statutes, compilation, 7262  
*see also* Hall Insurance.
- Agricultural laborers, *see* Farm labor.**
- Agricultural machinery, *see* Farm implements and machinery.**
- Agricultural marketing (periodical), 2997**
- Agricultural marketing specialists, examination announcement, 7534**
- Agricultural outlook, *see* Agriculture.**
- Agricultural periodicals, *see* Periodicals.**
- Agricultural policy, *see* Agriculture.**
- Agricultural products:**  
acquisition and disposal of farm commodities by CCC, 19  
acreage diversion, statutes, compilation, 7262  
agricultural commodities, agreements with—  
Afghanistan, 17227  
Algeria, 2892  
Bolivia, 8723, 11838  
Brazil, 5547  
Ceylon, 1641  
Colombia, 7173  
Congo (Kinshasa), 2886, 5535, 11840  
Ecuador, 15765  
Ghana, 14684  
India, 1635, 2935, 7180, 11848, 11860  
Indonesia, 5541, 7154  
Iran, 8737  
Iraq, 11844  
Israel, 17245  
Jordan, 2888, 2917  
Kenya, 14686  
Korea, Republic, 8747, 17229  
Liberia, 2891  
Morocco, 1636-37, 7163, 7176, 8727  
Pakistan, 1640, 7166, 8744, 15772, 15793  
Paraguay, 1634  
Philippines, 8746  
Sudan, 2839  
Tunisia, 1642, 5537  
Turkey, 17228  
Vietnam, 2902, 7179, 8734, 15783, 15804  
agricultural commodity grader, career, 9356  
agricultural marketing (periodical), 2997  
agricultural prices (periodical), 2999  
agricultural trade negotiations of Kennedy round, report, 16643  
ASCS commodity offices, where they are, what they do, 13207  
ASCS production adjustment programs, 8817  
building export markets for U.S. farm products, 6361  
CCC monthly sales list, 3083  
commercial sales and exports (remarks), 7295  
commodity classification for transportation, statistics, 13352

# INDEX 1967

**Agricultural products—Continued**  
 coordination in administration of Public law 480, hearings, 955  
 donated commodities, transported to State agencies, opportunities for reducing costs, GAO report, 4872  
 export potential for U.S. agribusiness (remarks), 16111  
 export programs, etc. (remarks), 13244  
 exportation of agricultural commodities, encourage, hearing, 17589  
 exports, bigger than ever in '67, general information, 8846  
 Federal stockpile inventories, report, 2986  
 foreign agricultural trade, monthly, 3343  
 foreign commercial markets (talk), 4818  
 foreign trade—  
   by commodities—  
     1965-66 fiscal year, 6174  
     1966 calendar year, 13951  
   by countries—  
     1965-66 fiscal year, 10927  
     1966 calendar year, 16495  
     economics of foreign countries and U.S., selected list of publications, 993  
     grade names used in USDA, list, 14737  
     grader, examination announcement, discontinuance notice, 16076  
     handbook of agricultural charts, 17306  
     Japanese market, competitive position of U.S. farm products, 995  
     Latin America, 20 countries, Guyana, Jamaica, and Trinidad and Tobago, indices, 4700  
     long term forecasts of supply and demand in Venezuela, summary and evaluation, 12456  
     market promotion of Foreign Agricultural Service, review, report, 10615  
     marketing act of 1946, amend, report, 16361  
     marketing act of 1946 and regulations thereunder, 9332  
     marketing agreement act of 1937, amend, hearing, 712  
     marketing bill—  
       and its components, 6170  
       for farm-food products, 987  
     marketing bulletins, 15858  
     marketing research reports, 34-37, 1702-4, 4120-22, 5644-53, 7276-78, 8834-36, 10179-181, 11933-935, 13228, 14751, 15859-864, 17322  
     orderly liquidation of stocks of agricultural commodities held by Commodity Credit Corporation and expansion of markets for surplus agricultural commodities, 5665  
     perishable agricultural commodities act—  
       fair trading in fruit and vegetable industry, 13236  
       what food retailers should know, 8843  
     price supports, active and announced programs, 2984  
     prices, 1966 annual summary, 13156  
     producers, control unfair trade practices—  
       hearings, 10800  
       report, 15086  
     production research reports, 50, 4140, 5678, 14759, 15873-874  
     promote international trade, extend public law 480, etc., law, 512  
     publications, price list, 7055  
     purchase reports, 3789  
     resale program in commercial storage, hearings, 10627  
     sales reports, 3848  
     Saudi Arabia, supply and demand projections to 1975, with implications for U.S. exports, 7886  
     surplus, concessional sales, administration of cargo preference act, 4551  
     tropical products, foreign agriculture circulars, 3345

**Agricultural products—Continued**  
 USDA standards, list, 13215  
 vegetable products, trade and tariff information, summaries, 7203  
 world agricultural production and trade, statistical report, 4072  
 world population needs (address), 4092  
 Agricultural Research Center, Beltsville, Md :  
   guide, 13204  
   what it is, where it is, etc., information bulletin, 7263  
 Agricultural Research Laboratory, University of Tennessee, research progress report-7425  
 Agricultural research scientists :  
   examination announcement, 12103  
   discontinuance notice, 12106  
 Agricultural Research Service :  
   appropriations, 1968, hearings, 10629, 12397  
   ARS series, 2-9, 1672-74, 4083-86, 5615-16, 7241-52, 8803-8, 10147-156, 11915-922, 13196-203, 14733, 15824-827, 17299-300  
   hog cholera eradication program, controls over use of vaccines, GAO review, 9549  
   research roundup 1966, picture story, 4139  
   scientific careers, 17323  
   plant pest control, 13229  
 Agricultural science review, 3001  
 Agricultural situation, see Agriculture.  
 Agricultural situation (periodical), 3002  
 Agricultural Stabilization and Conservation Service :  
   administration of program crops certification, 7293  
   appropriations, 1968, hearings, 10629, 12397  
   ASCS background information BI series, 19, 5621, 8816-17, 13207  
   commodity offices, where they are, what they do, 13207  
   county employees, extend certain benefits to—  
     hearings, 10870, 17609  
     report, 13807  
   general information, 8816  
   press releases, 3703  
   production adjustment programs, 8817  
   purchase reports, 3789  
   sales reports, 3848  
   wheat marketing allocation program, need to further revise regulations to minimize loss to Government, 1100  
 Agricultural statistics, see Agriculture.  
 Agricultural supplies :  
   Federal item identification guides for supply cataloging, supplements, 3290  
   regional cooperatives handling supplies, 1964 and 1965, handbook, 7943  
 Agricultural trade development and assistance act of 1954 :  
   coordination in administration of Public law 480, hearings, 955  
   extend, etc., law, 512  
   extension, new food aid program, 4127  
   food for freedom, monthly news report on activities under PL 480, 3342  
 Library of Congress Public law 480 project :  
   accessions lists—  
     Ceylon, 11337  
     India, 3416  
     Indonesia, 3419  
     Israel, 3450  
     Middle East, 3554  
     Nepal, 3618  
     Pakistan, 3673  
     newsletter, 3507  
   Public law 480, statutes, compilation, 7262  
   text and amendments, compilation, 4463

Agricultural Weather Service, National, *see* National Agricultural Weather Service.

Agricultural workers, *see* Farm labor.

Agriculture:

- act of 1956, amend—
  - hearings, 15012
  - reports, 13683, 13687
- Africa and west Asia, situation—
  - midyear reviews, 991, 16494
  - 1966 review and 1967 outlook, 10924
- agricultural adjustment act, amend—
  - hearings, 10624, 13692, 17588
  - laws, 9036, 13532, 17551
  - reports, 7666, 7782, 10574, 13801, 14948, 15127, 16274, 16369
- agricultural application of remote sensing, potential from space platforms, 15843
- agricultural/biological vocabulary—
  - alphabetical list, 17026
  - categorized list, 17025
- agricultural economic reports, 983-984, 2168-70, 6170-72, 7880-82, 9387-89, 10916-917, 12452-453, 13941-942, 16485-487, 17710-711
- agricultural economics—
  - graphic analysis, applications, 4099
  - of foreign countries and U.S. foreign agricultural trade, selected list of publications, 993
  - periodic reports, list, 10195
  - reports and publications, 1961-65, Economic Research Service, 13947
  - research (periodical), 2996
- agricultural extension programs, using visuals, 16569
- agricultural meteorology, USSR studies, 4957
- agricultural outlook digest, 2998
- agricultural policy—
  - address, 1676
  - review of programs and needs, 17124
- agricultural prices (periodical), 2999
- agricultural production, effects of climate changes, Communist China study, 9673
- agricultural research (periodical), 3000
- agricultural science—
  - in science community (address), 10160
  - review, 3001
- agricultural situation—
  - 1967, hearing, 6025
  - periodical, 3002
- agricultural trade, European Economic Community, 1959-64, statistical reference, 2174
- agriculture handbooks, 28, 1678-82, 4096-99, 5622-23, 7260-62, 10161-162, 13211-215, 14735-737, 15836-837, 17304-306
- agriculture information bulletins, 29, 1683, 4100, 5624, 7263-66, 11927, 13216-217, 14738, 15838-843, 17307-308
- agriculture monograph, 7267
- agriculture 2000—
  - communities of tomorrow (address), 8821
  - growing nations, new markets (address), 8822
  - income and abundance (address), 7268
  - knowledge for living (address), 8823
  - resources in action (remarks), 8824
  - resources in action, outline of conservation policies, 10200
  - science in service of man (address), 10163
  - speeches (compilation), 13218
- agriculture's challenge today and tomorrow, report of Secretary of Agriculture, 11942
- American, men and milestones, 2039
- assistance for developing countries, picture story, 17332
- aviators, protect, case studies, 140

Agriculture—Continued

- balance sheet, 17308
- bank financing, 12530
- bibliography, 3056
- books and periodicals, selected list, 14505
- Brazil, position in world agricultural trade, 17713
- census, 1964—
  - counties, farms, livestock, etc., 5903-4, 7499-7510, 8962-65, 10388-398, 12091-92, 13404-412, 14837-839, 16036-40, 17442
- data-collection forms and procedures, 16041
- final reports, 16041
- preliminary reports, 3085
- census publications, price list, 7056
- challenge, today and tomorrow (address), 30
- chronology of American agriculture, 1790-1965, chart, 4696
- code of Federal regulations, 6267-73, 7975, 9460, 11030-32, 12516-520
- Communist Chinese scientific abstracts, 3114
- cooperation, 1954-64, selected references, 1517
- cooperative extension services in District of Columbia, establish, hearing, 16387
- creative industry (address), 13210
- decisions, 3003
- East European, translations, 3954
- economics of size in farming, theory, analytical procedures, etc., 6172
- employer-employee relationship where share-cropping arrangements or landlord-tenant agreements provide shares of crops as rental payments in farm operations, 7223
- era of dramatic change and expanding opportunity (address), 27
- Europe and Soviet Union situation—
  - midyear review, 16491
  - 1966 review and 1967 outlook, 9394
- export policy (address), 1677
- fair practices act of 1967—
  - hearings, 10800
  - report, 15086
- Far East and Oceania—
  - agricultural data book, 10926
  - situation—
    - midyear review, 16492
    - 1966 review and 1967 outlook, 12455
- Federal programs, effect on rural America hearings, 17583
- finance outlook, 2171
- finance review, 985
- supplement, 10918
- food and agriculture act of 1965, amend, report, 15087
- food costs, farm prices, compilation, 13694
- food needs and U.S. agriculture in 1980, analysis of land, labor and capital requirements, etc., 17122
- foreign agricultural economic reports, 995, 2176, 4702, 15209, 17714
- Foreign Agricultural Service, miscellaneous FAS-M series, 1084, 2286, 4816-17, 8047-48, 9524-25, 11097-99, 12565, 14076, 16641-643, 17792
- foreign agriculture (periodical), 3344
- foreign agriculture circulars, 3345
- foreign agriculture, publications, price list, 7055
- future international meetlogs, world list, 4073
- genetics introduced into agriculture, USSR study, 1189
- Georgia, federally assisted in programs, equal opportunity, 16061
- good farm worker housing is good farm business, 2194
- handbook of agricultural charts, 17306
- historic books and manuscripts concerning general agriculture in collection of National Agricultural Library, 8515

# INDEX 1967

- Agriculture—Continued  
hunger is ahead in race between hunger and hope, picture story, 17331  
Indonesia, 9393  
information services offered by National Agricultural Library and other Government agencies, 5282  
international—  
agricultural development, monthly newsletter to cooperators, 3432  
agricultural trade, terms used, 9524  
new careers, 13234  
Latin American—  
agricultural development, role of Inter-American Development Bank (remarks), 10121  
development, food situation, report, 13701  
laws, compilation, 1986  
legislation enacted, 89th Congress, review, 4520  
meteorological and hydrological factors effects, USSR studies, 4938  
minimum wages, application, hearing, 7732  
our foreign agricultural trade, 4100  
Panama, 7887  
prospects (address), 15877  
research and marketing act of 1946, amend. report, 2020  
research roundup 1966, Agricultural Research Service programs, picture story, 4139  
scientific research coordination in Socialist countries, 7th conference, report, Hungarian study, 14242  
Senegal's agricultural economy in brief, 992  
sharing our knowledge with other nations, 13235  
slash-burn, among mountain tribes of central Vietnam, 14246  
State departments, 1967 directory, 7836  
statistical summary, 3902  
statistics, 1684  
trace elements, USSR studies, 6542  
tropical, in economy of Hawaii (address), 4093  
United States, fact book, 17324  
USSR—  
economic reform, improvement of methods of planning and economic stimulation of production, 4961  
translations, 3968  
Western Hemisphere—  
agricultural policies, 17714  
situation—  
midyear reviews, 990, 16493  
1966 review, and 1967 outlook, 10925  
work of agricultural institutions in Soviet Union and German Democratic Republic, 6372  
world agricultural production and trade, statistical report, 4072  
World Farm Center, endorse concept, 13626  
world situation, 1966 review and 1967 outlook, 4702  
worldwide use of airphotos in agriculture, 17304  
yearbook, 1967—  
departmental edition, 17325  
document edition, 17566  
yearbooks, list, 8620  
see also Dry farming—Farmers' cooperative organizations—Farms—also headings beginning Agricultural—Farm  
Agriculture and Forestry Committee, Senate:  
calendar, 3489  
hearings, 938, 7792, 10799-802, 15145-146, 16387, 17634  
reports, 910, 925, 2083-85, 7781-83, 10748-749, 13790, 13803-804, 15086-88, 15090, 15127-130, 16361, 16368-370  
Agriculture Committee, House:  
calendar, 3470  
committee prints, 2039, 4520-21, 13694  
funds, providing, report, 7678  
Agriculture Committee, House—Continued  
hearings, 707-712, 2037-38, 6025, 7732, 9138-40, 10624-628, 13691-693, 15010-13, 16301-303, 17583-589  
investigations and studies, authorization, report, 6015  
reports, 660-661, 2020, 4495, 7666, 9083, 9101, 9119, 10573-574, 13626, 13659, 13668-669, 13683, 14948, 14981, 16255, 16274-276, 16297  
travel authorization, report, 12281  
Agriculture Department:  
activities of interest to cattle raisers (address), 7259  
Alaska Agricultural Experiment Station, transfer to University of Alaska—  
law, 386  
report, 660  
annual reports, 11940-942  
appropriations, 1967, supplemental, hearings, 2040  
appropriations, 1968—  
hearings, 9141, 10629, 12397, 13839  
law, 17558  
reports, 10620, 13815, 16300  
budget, 1968—  
amendment, 10522  
hearings, 9141, 10629  
chemical compounds authorized for use under USDA poultry, meat, rabbit and egg products inspection programs, lists, 10878, 16445  
contracts for diamonds for stockpile, balance-of-payments aspects, GAO report, 15293  
economy family food plan, sample menus and food list for week, 10157  
field staff, Foreign Service list, 3349  
food donated for distribution abroad, problems in processing claims against voluntary relief agencies for loss or misuse, GAO report, 12589  
food donation programs administered by nonprofit organizations, audit extent, GAO report, 8149  
food stamp program, method for sharing our abundance, 5669  
grade names for food and farm products, list, 14737  
HOPE, highlights of personal experiences in Agriculture Dept. under President's Youth Opportunity Campaign, 8833  
inspection and grading services, dairy plants surveyed and approved, 6131  
inspection services, user charges, authorize, hearing, 15146  
institutional meat purchase specifications approved portion-cut meat products, 7838  
amendment, 12429  
land exchanges, accept cash equalization, report, 2084  
leadership for more beautiful countryside, 49  
leaflets, 32-33, 1699-1701, 4110-18, 5634-43, 7273-75, 10172-178, 11932, 14745-750, 15857, 17320-321  
marketing bulletin, 15858  
marketing research reports, 34-37, 1702-4, 4120-22, 5644-53, 7276-78, 8834-36, 10179-181, 11933-935, 13228, 14751, 15859-864, 17322  
meat inspection—  
procedures manual, 3537  
regulations, 3814, 6132  
miscellaneous publications, 38-42, 1705-9, 4123-26, 5654-64, 7279, 8837, 10182-186, 11936, 13229-233, 14752-753, 15865, 17323-324  
PA [program aid] series, 43-49, 1710-18, 4128-37, 5666-77, 7281-93, 8838-45, 10188-194, 11937-938, 13235-237, 14754-758, 15866-871, 17326-330



**Agriculture Department—Continued**  
 plants under continuous inspection, processed fruits and vegetables, etc., list, 16447  
 poultry and egg inspection and grading programs, plants operating under, lists, 2137, 16446  
 poultry inspection regulations, hearing, 710  
 press releases, 3704  
 processed fruit and vegetable inspection, 11937  
 production research reports, 50, 4140, 5678, 14759, 15873-874  
 programs and services, you too can get help, 14754  
 programs, etc., and their application to Alaska (address), 25  
 programs for elimination of poverty in rural America (statement), 7296  
 progress report on pesticides and related activities, 7294  
 publications and motion pictures, bimonthly list, 3058  
 registered agricultural pesticide chemicals, summary of uses, supplement, 8815  
 sale of land in Lander, Wyo., reports, 925, 7781  
 service, USDA's report to consumers (periodical), 3873  
 standards for food and farm products, list, 13215  
 statistical bulletins, 53, 1720-21, 4143-50, 5679-84, 7297-7302, 8847-48, 10201-205, 11943-944, 13247-251, 14760-762, 17333  
 technical bulletins, 54, 1722-23, 4151-52, 5685-88, 7303, 8849, 11945, 13252, 14763-765, 17334-336  
 telephone directory, 17337  
 USDA-C&MS visual aid series, 4662, 13901  
 USDA employee newsletter, 4012  
 USDA grades, how to use in buying food, 5671  
 veterinarians, career opportunities, 5657  
 what it can do when natural disaster strikes, 10189  
 what it is, and what it does (address), 4094  
 wheat export program conducted by CCC, GAO review, 14159  
**Agrometeorology:**  
 effect of agrometeorological conditions on harvest, USSR studies, 6192  
 research, USSR methods and results, 6489  
 United States progress, report, 11900  
 Agua Caliente Reservation, *see* Palm Springs Reservation  
 Agullana, Margarita L., relief, 9204  
 Ahlstrom, Elbert H., distribution and abundance of sardine and anchovy larvae in California Current region off California and Baja California, 1951-64, summary, 8036  
 Aho, Paul E., defect estimation for grand fir, Engelmann spruce, Douglas-fir, and western larch in Blue Mountains of Oregon and Washington, 2289  
 AIB series, 29, 1683, 4100, 5624, 7263-66, 11927, 13216-217, 14738, 15838-843, 17307-308  
 AID, *see* International Development Agency  
 Aid to families with dependent children, *see* Children—Public assistance  
 Aidit, Djafar N., Aidit's flight following Sept. 30 movement in Indonesia, 12679  
 Aids to navigation, *see* Navigation  
**Air:**  
 aerial dispersal of pink bollworm in U.S. and Mexico, 5678  
 breathing in flight, the higher you fly the less air in the sky, 8920  
 bubbles, properties at air/sea interface, influence of surface-active material, 17088

**Air—Continued**  
 clear, turbulence in, near thunderstorms, 6222  
 current velocities, electronic-mechanical method of measuring, USSR study, 1178  
 differential energy and angle spectra for Cs-137 gamma rays, 13326  
 embolism, cerebral, basic studies, 12793  
 equilibrium composition, equations for rapid machine computation, and derivatives for flow-field calculations, 16973  
 equilibrium dissociating, stagnation-point boundary layer with suction and injection, 8499  
 pressures and forces on flare-stabilized bodies in air and in mixture of 85-percent CO<sub>2</sub> and 15-percent air, 17011  
 sound absorption versus humidity and temperature, 6707  
 supersonic mixing of hydrogen and air, 9807  
 velocity measurements, evaluation of smoke-wire technique, 10293  
 wash, grid-bar, effect on efficiency of lint cleaners and fiber quality of cotton, 14759  
*see also* Air pollution—Atmosphere.  
 Air almanacs, *see* Almanacs.  
**Air bases:**  
 management of hi-value aeronautical parts by Pacific Air Forces bases, GAO report, 8133  
 planning and design, theater of operations, Air Force manual, 1727  
 Air bearings, *see* Bearings (machinery).  
 Air blasts, multiple row charge blast-wave observations at long range, 1798  
 Air cargo comes to smaller community, 17447  
 Air cargo workshop, Regional, *see* Regional air cargo workshop (periodical).  
**Air carriers:**  
 air taxi operators—  
     and commercial operators of small aircraft, Federal aviation regulations, 12498, 14008  
     scheduled as of Nov. 1966, statistics, 9446  
 air transport—  
     California strawberries, factors affecting market quality, 1966 spring shipments, 1704  
     industry and subsidy policy (talk), 7519  
     services, agreement with—  
         Agency for Safety of Air Navigation in Africa and Madagascar (ASECNA),  
         Denmark, 7153  
         Great Britain, 7152  
         Panama, 15782  
         Sweden, 8724  
 air transportation system—  
     CAB's duty and authority as to proper application of subsidy (remarks), 8971  
     CAB's responsibilities (remarks), 1899  
 air-truck coordination and competition, 11231  
 airfreight rates, introduction, 16047  
 analytical charts and summaries, including supplemental air carrier statistics, 3005  
 cargo services for smaller community (remarks), 17447  
 certificated—  
     accounts and reports, uniform system, 3993, 8972, 13419  
     local service, U.S. transportation system routes, map, 4375  
     route, airport activity statistics, 7517, 16547  
     subsidy, 1901  
     trunkline, U.S. transportation system routes, map, 4376  
     U.S. cargo, domestic, international, and overseas routes, map, 4377

# INDEX 1967

## Air carriers—Continued

certification and operations, Federal aviation regulations, 2237, 14007, 16556  
 challenge of jet age (remarks), 13420  
 district offices, standard procedure for uniform reporting, handbook, 14012  
 efficient surface transportation and air cargo services (remarks), 5911  
 financial statistics—  
   quarterly and 12-month, 3006  
   supplement, 3005  
 flight engineer, written examination guide, 2282  
 foreign routes, to U.S., authorized under permit, map—  
   Eastern Hemisphere countries, 4373  
   Western Hemisphere countries, 4374  
 international and overseas routes, map, 4372  
 international transportation, unification of rules, convention amendments, withdrawal of treaty, text, 15064  
 labor dispute, settlement—  
   hearings, 959  
   report, 874  
 local service, unit costs, 1897, 13418  
 maintenance certification procedures, FAA handbook, 10981  
 marvels and problems of air transportation (remarks), 1900  
 military, freight preparation for air shipment, DSA manual, 17692  
 passengers originating at cities on local service routes, letter to mayors, 3937  
 regional air cargo workshop (periodical), 3813  
 scheduled, with helicopters, certification and operations, Federal aviation regulations, 6240, 12497  
 service personnel on authorized leave, accommodations of commercial carriers, subcommittee report, 4325  
 shadow box optical landing system, 11680  
 small business role in air transportation industry, report, 4511  
 traffic statistics—  
   monthly and 12-month, 3007  
   supplement, 3005  
 transportation of dangerous articles and magnetized materials, Federal aviation regulations, 10998-999  
 transportation industry, present traffic and profits to serve public need (address), 17445  
 United States carriers, lists, 5909, 13417  
 Air Cleaning Conference, AEC, Boston, Mass., Sept. 13-16, 1966, proceedings, 12004  
 Air commerce, *see* Aeronautics.  
 Air compressors, *see* Compressors.  
 Air conditioning:  
   equipment—  
   current industrial reports, 5853  
   Federal item identification guides for supply cataloging, supplements, 3288  
 Air crews, *see* Flight crews.  
 Air-cured tobacco, *see* Tobacco.  
 Air cushion vehicles, lightweight fans, structural design techniques, 117  
 Air drop operations, airdrop of supplies and equipment, Army technical manuals, 112, 1771, 4217, 7398-99, 8887-89, 10280-281, 13303, 15949-952  
 Air elutriation, *see* Elutriation.  
 Air Force:  
   Air Force civil engineer (periodical), 3008  
   Air Force Systems Command, general information, 14783, 17364  
   Air Force writing (periodical), 3010  
   air navigation, general information for navigators, etc., manual, 1724  
   Air Staff, organization chart, 3012  
   airman, official magazine of Air Force, 3019  
   airmen—  
   occupational handbook, manual for guidance counselors, 15902

## Air Force—Continued

airmen—continued  
   qualifying examination, comparison with differential aptitude tests, errata, 4171  
   base procurement mechanization system, manual, 10211  
   benefits for dependents and survivors of Air Force casualties, personal affairs pamphlet, 13259  
   career opportunities, jobs that count, 10223  
   Chief of Staff, appointment, etc.—  
   law, 12164  
   report, 10611  
   communications officers, job types, 15892  
   comptroller (periodical), 15879  
   depot, field, and organizational maintenance, management, manual, change, 14767  
   depth perception tests, stereoscopic angle relationship, 70  
   drill and ceremonies, manual, 8851  
   driver, automotive magazine, 11949  
   employment of military retirees as civilians, law, 5697  
   enlisted members, computing retired pay, report, 16270  
   enlistees, dental caries status, 7353  
   field press censorship, manual, 13293  
   food service management, manual, 8857  
   hearing survey of flying personnel, 17356  
   instructors journal, 4011  
   job analysis, impact of computer, 13268  
   libraries, buying calendar for annual publications, 8859  
   materiel, validity and controls over large volume of unfilled orders, GAO review, 17813  
   military standard, digital computer systems for real-time training simulators, 9373  
   of flight and bold men, 5704  
   officers—  
   grade requirements project, Criterion Board ratings, predicting, 15891  
   position evaluation, development of benchmark scales, 5705  
   qualifying test, relationship of scores to success in undergraduate pilot and navigator training, 13267  
   Pacific bases, management of bi-vala aeronautical parts, GAO report, 8133  
   Pacific, PACAF basic bibliographies, 4169, 7338, 8866-67, 10227-230, 11950, 13266  
   personnel, automobile accidents, prediction, 17344  
   procurement instruction, revisions, 3009  
   Project LITE (legal information through electronics), management, hearing, 15034  
   register—  
   departmental edition, 5699-5700  
   document edition, 5983-84  
   research and development procurement—  
   contracting, officers' handbook, 13260  
   laboratory policies and practices for procurement management, pamphlet, 13261  
   research resumés, 15888  
   science and Air Force, history of AFOSR, 7335  
   Scientific Advisory Board, first 20 years, 11969  
   scientific research 1960, bibliography, 7304  
   sites, engineering weather data for heating, air conditioning design, etc., 11947  
   tactical air operations—  
   and readiness, subcommittee report, 2106  
   southeast Asia, report, 10813  
   USSR, test airfield, 16738  
   weather forecaster proficiency, test correlates, 8863



Air Force Academy, Colo.:  
cadets, class of 1967, predicting 1st year achievement, 17343  
catalog, 10208  
general and engineering geology of site, 11179  
ground water supply relative to geology, engineering, etc., 11179  
permitting persons from countries friendly to U.S. to receive instruction—  
law, 566  
report, 692  
special bibliography series, 5689, 10206-207  
Air Force Cambridge Research Laboratories:  
AFCRL series, 4153  
geophysics and space data bulletin, 3377  
Air Force Department:  
Aerospace Research Office monograph series, 15890  
aerospace vehicles, information handbook, 15882  
AFCRL series, 4153  
AFOSR series, 7304, 14766, 15878  
Air Force manuals, 55-61, 1724-29, 4155-65, 5690-95, 7365-15, 8856-57, 10209-221, 11946-947, 13254-256, 14767-768, 15880  
Air Force pamphlets, 5696-98, 7316-17, 8858-59, 11948, 13257-259, 15881-882, 17338  
annual report, 2149  
appropriations, 1968, military construction, hearings, 16305  
Assistant Secretary, nomination of Thomas H. Nielson, hearings, 17639  
cancellation of grazing permits, compensate claimants, 4576  
communication facilities between Alaska and U.S. mainland, economical use, GAO report, 15301  
ESD technical reports, 62-65, 4166, 8861-64, 13262  
lunar charts and mosaic series, 4167-68, 7319-33, 8865, 10224-226, 13263, 15886-887  
management of bi-valve aeronautical parts by Pacific Air Force bases, GAO report, 8133  
OAR series, 7335-37, 15888-889, 17342  
Personnel Research Laboratory, technical reports, 4170-72, 5705, 7339, 11951-952, 13267-268, 15891-893, 17343-345  
procurement of missile fuel from sole-source supplier, GAO review, 9551  
Under Secretary, nomination of Townsend Hoopes, hearing, 15149  
validity and controls over large volume of unfilled orders for Air Force materiel, GAO review, 17813  
Air Force installations, *see* Installations (military).  
Air Force Medical Service:  
annual report, 8870  
digest, 3994  
Air Force Office of Scientific Research:  
AFOSR series, 7364, 14766, 15878  
history, 7335  
research, program and summary of accomplishments, 15878  
Air Force Reserve, air reservist (periodical), 3011  
Air Force ROTC, *see* Reserve Officers Training Corps, Air Force.  
Air Force supplies, *see* Military supplies.  
Air Force Systems Command:  
general information, 14783, 17364  
manuals, 5701-2  
pamphlets, 16222, 13260-261  
procurement, work statement preparation, manual, 5701  
systems acquisition, guide for effective change processing, 10222  
Air frames, *see* Airframes.  
Air freight forwarders, *see* Freight forwarders.

Air inlets (aircraft):  
axial-flow-compressor-inlet stages under high loading, aspect ratio and curvature variations, 9916  
choked, flow characteristics for turbojet engine, 11499  
convergence nozzles, with uncooled pipe inlets, heat transfer investigation, 17005  
perforations in jet engine supersonic inlet increase shock stability, 2655  
rotor-inlet flow conditions, control by guide vanes, 5275  
supersonic mixed-compression, analysis of bypass air control system, 12946  
supersonic transport inlet sensitivity study, 8496  
Air jets, model, influence of upstream flow discontinuities on acoustic power radiated, 6714  
Air lines, *see* Air carriers.  
Air mail:  
Armed Forces, provide additional mailing privileges—  
hearings, 10670  
report, 10613  
Hawaii, transport of all classes of mail by air, hearing, 9166  
international 13-cent postal card, 14607  
overseas Armed Forces, provide better service, law, 438  
13-cent John F. Kennedy aerogramme (poster), 10025  
Air mass:  
microorganisms—  
in 2 types of air masses at 690 meters over a city, 66  
of land air mass as it traverses ocean, 68  
Air National Guard, *see* National Guard.  
Air navigation:  
Air Force manual, 1724  
facilities—  
Interagency ground inspection manual, 16559  
non-Federal, FAA regulations, 14011  
outage and equipment failure report, FAA handbook, 10983  
rules governing, FAA regulations, 11004  
flying training, Air Force manual, 13254  
Iceland, joint financing of services, agreement with other governments, 7158  
navigable airspace, objects affecting, Federal aviation regulations, 15238  
navigator (periodical), 3612  
pictorial display in instrument departures of supersonic transport, simulator study, 12944  
Air Navigation in Africa and Madagascar, Agency for Safety of, *see* Safety of Air Navigation in Africa and Madagascar Agency.  
Air pilots, *see* Aviators.  
Air pollution:  
Air Cleaning Conference, AEC, Boston, Mass., Sept. 12-16, 1966, proceedings, 12664  
air quality—  
act—  
address, 8640  
hearings, 10871, 12426, 15043  
reports, 13821, 16286  
criteria for sulfur oxides, 11715  
data, from national air sampling networks, etc., 8624  
management, case study of St. Louis air pollution basin (paper), 11716  
automobile and air pollution, program for progress, 17470  
automotive—  
problems and progress associated with control, hearings, 16871  
report of HEW to Congress, 761, 6056, 16348  
print as Senate document, reports, 6083, 15142  
bibliography, 2805

Air pollution—Continued  
carbon-bearing contaminants, models for analysis of radiation behind shock waves, 9905  
clean air—  
for your community, problems, solutions, etc., 2809, 11722  
plan, Greenspan grants, general information, 5672  
clean air act, amendments—  
Dec. 17, 1963, text, 5425  
hearings, 12426, 13856, 15043  
law, 393  
reports, 13821, 16286  
community air pollution emissions, rapid survey technique for estimating, 7062  
control—  
bulletin of courses, 18153  
Federal role (address), 13072  
from automotive vehicles, Federal standard, 6324  
now for clean air, national conference proceedings, summary, 14620  
programs, appropriations, authorize, law, 393  
State and local programs, 2838  
controlling devices and laws necessary (remarks), 5446  
District of Columbia, problems, hearings, 10829, 16518, 16406  
effects, 5427, 5441, 13071  
emissions from tepee burners used for municipal refuse disposal, 1572  
environmental health series, 1572, 5428, 7062-63  
environmental pollution, challenge to science and technology, report, 2057  
Federal program, 5431  
films on loan for group showing, list, 13075  
flame characteristics, production of nitrogen oxides and carbon monoxide, 8378  
impact of pollution abatement regulations on industry and municipalities (address), 1580  
industry's responsibility in controlling (address), 8636  
interstate study, phase 2 project reports, 5458-62, 11759  
laws, compilation, 4547  
meteorology and topography, result of surveys, 11739  
metropolitan planning program relationships to air resource management, 13084  
microorganisms—  
in 2 types of air masses at 690 meters over a city, 66  
of land air mass as it traverses ocean, 68  
national sample, 1566  
nitric acid manufacturing processes, emissions, 5428  
no laughing matter, cartoonist focuses on air pollution, 5450  
odors, results of surveys, 5440  
pollutant emission inventory, 5439  
pollution of our air, problems, message from the President, 5992  
relationship between—  
altitude and micropopulation, 1733  
frontal activity and micropopulation at altitude, 1732  
research, projects 1966, guide, 2813  
resource management program for southwestern Ohio-northern Kentucky, survey, 11717  
sources, and their control, 2837  
State laws, digest, 1568  
studies, progress report of Organic Chemistry Section, 18081  
take 3 giant steps to clean air, 2821, 11731  
today and tomorrow, 2840  
training programs, courses offered at universities and Division of Air Pollution, 2806

Air pollution—Continued  
vehicle emissions, control progress (address), 2836  
West Virginia, climatological aspects, 6219  
Air Pollution Control Advisory Council of D.C., create, hearings, 16406  
Air Pollution Control Board of D.C., create, hearings, 16406  
Air Pollution Control, National Center, see National Center for Air Pollution Control  
Air Pollution, National Conference on, see National Conference on Air Pollution  
Air purification equipment, industrial plant equipment handbook, 4674  
Air Quality Advisory Board:  
establish—  
hearings, 10871, 12426, 15043  
reports, 16286  
Air raids:  
North Vietnam, bombings of civilians by U.S., reports by pro-Communist eyewitnesses, 4955  
use of plotters in East German air defense system, 2437  
Air reservist (periodical), 3011  
Air routes, see Airways  
Air safety, see Safety of life  
Air samplers:  
automatic sampler for collecting radioactive particulates in ground level air, 1788  
cleanroom, counts, categorizes, and records particle size, 14409  
instrumentation for isokinetic air sampling at altitude, 67  
Air service, see Aeronautics—Air carriers  
Air speed:  
hypersonic aerodynamics of minimum-wave-drag bodies, etc.—  
characteristics, 16971  
performance, 1515, 12968  
maneuver speed increases on SST configuration in relation to speed margins, simulator investigation, 16972  
pitch maneuver speed margins for supersonic transport configuration with variable-sweep wing, investigation, 17000  
radiative heat transfer for large objects at meteoric speeds, 12958  
Air taxi operators, see Air carriers  
Air terminals, see Terminals (transportation)  
Air traffic:  
activity—  
FAA report—  
1966, calendar year, 6235  
1966, fiscal year, 1087  
1967, fiscal year, 16550  
miscellaneous statistics, 7952  
air carrier statistics—  
monthly and 12-month, 3007  
supplement, 3005  
control—  
contractions used by FAA, etc., handbook, changes, 5716, 13273  
en route, 13274, 14784  
facility operation, 7371  
interagency ground inspection manual, 16559  
procedures, changes, 3013  
terminal, 13276, 14785  
facility outage and equipment failure report, FAA handbook, 10943  
navigable airspace, objects affecting, Federal aviation regulations, 10994, 15238  
patterns for IFR and VFR aviation, 17740  
special rules and airport traffic patterns, Federal aviation regulations, 10996, 16555  
Air traffic controllers:  
center, tower, station, control specialists, examination announcement, 16064  
performance tasks for operator-skills research, 1821

**Air Traffic Service:**

- service A weather schedules, ATS handbook, changes, 5717, 11971
- service C, weather schedules, 1746 change, 11972

**Air transportation, see Aeronautics—Air carriers—Transportation.****Air-truck coordination and competition, 11231****Air University Library, index to military periodicals, 3014****Air University review, 2015****Air warfare:**

- air war against North Vietnam, hearings, 16394

**USSR air defense troops, 6569****Air Weather Service, technical reports, 7318, 8860, 15883-884, 17339****Airborne Tactical Data Center Training, combat team training, 18109****Aircraft:**

- aircraft and aircraft engines, current industrial reports, 3169, 13389

- aircraft and equipment, transfer, agreement with Saudi Arabia, 2926

- aircraft specifications, consolidated reprint, 15236

**airworthiness—**

- FAA directive (periodical), 9439

- FAA directives, biweekly, 3256

- alterations, acceptable methods, techniques, and practices, 2981

- changes, 9521, 16638

- and birds, Midway Islands, 1959-63 investigations, 4809

**Army—**

- air transport operations, 11986

- aviation maintenance engineering manuals, 4218, 7400, 10282

- fixed wing cargo, restraint design criteria, analysis, 10289

- maintenance quality control and technical inspection guide, technical manual, 8893

**C-47 aircraft, agreement with Mall, 11873****certification procedures for products and parts, Federal aviation regulations, 6238, 10987-988****civil aircraft registers, 7953, 17749****civil, technical standard order authorizations, FAA regulations, 9443, 17744****Coast Guard, authorization for procurement—**

- hearings, 7752, 10827

- law, 13524

- reports, 10556, 12378

**COIN-type STOL, flight investigation, 15572****components and accessories, Federal item identification guides for supply cataloging, supplements, 3293****control, master data handling program uses automatic data input, 16940****data for airplanes in common use in civil fleet, airport design, change, 13999****data, thunderstorm circulations and turbulence studies, 10966****DeHavilland, damping behavior of stem booms, 11539****Douglas DC-6/7 series, maintenance inspection notes, 17747****emergency procedures over water, 3016****environments, respiration rate transducers, development, 18044****fabrication techniques for fiber glass reinforced primary aircraft structures, 4222****Federal item identification guides for supply cataloging, supplements, 3293****fire and rescue truck, 1000-gallon, guide specification, 10246****flight testing, theoretical principles and modern methods, 8509****floatation of passenger seat cushions, 137****fuels and fuel systems, Coordinating Research Council handbook, 11624****Aircraft—Continued****general aviation—**

- handling qualities, evaluation, 1514

- shoulder restraint installation, recommendations, 7446

**general operating and flight rules, Federal**

- aviation regulations, 1041, 2236

**hardware and materials, Army aviation**

- maintenance engineering manual, 8892

**icing, climatological probability, 7318**

- inspection aids, general aviation, 3373

- summary, 15269

**inspection and repair, acceptable methods,**

- techniques, and practices, 2982

**jet, wide-angle, indirect optical viewing**

- system, 1497

**large airworthiness directives, summaries,**

- 3917, 12502, 17748

**large, commercial operators, certification**

- and operations, Federal aviation regulations, 2237, 14007, 16556

**light-aircraft pilots, non-instrument-qualified, performance during instrument**

- flight, simple stability augmentation system, effects, 11519

**light, fluid flight path control system,**

- study, 16890

**Mach 6 cruise vehicles, integration of air-**

- frame and propulsion system, 18010

**maintenance—**

- certification procedures, FAA handbook, 10981

- tools, Army technical manual, 4218

**Marine Corps, 1913-65, utilization, 17905****military—**

- aircrew station vision requirements, military standard, 16470

- flight manuals, prototype specification development, 2784

- transportation of dangerous materials, Air Force manual, change, 13255

**military procurement appropriations,**

- 1967—

- report, 2014

- supplemental—

- hearings, 6031, 7799

- law, 9035

- reports, 6087, 7665, 7667, 7673

**military procurement appropriations,**

- 1968—

- hearings, 7797, 9149

- law, 12164

- reports, 7786, 10370, 10575, 10611

**model, pitching moments caused by tail,**

- equations for application of wind-tunnel wall corrections, 2715

**noise—**

- insulating houses, study, 14188

- multiengine jet transport, noise-abatement approach profiles, NASA research, 12956

- propagation of sound from airport ground operations, 11404

- references, 4753

**optimum body shapes at hypersonic speeds,**

- studies, 18024

**oxygen mask designs for general aviation,**

- performance characteristics, 17412

**Paris Air Show—**

- news fillers, 8225

- newsletter, 8226

**passenger-seat-system response to im-**

- pulsive loads, 17388

**pressurized, small, potential decompression**

- hazards, evaluation, 17414

**Princeton dynamic model track, general**

- description, 7409

**production, miscellaneous statistics, 7952**

- registration, Federal aviation regulations, 10990, 15237, 17746

**repair parts, Army Dept. management at**

- depots in U.S., GAO review, 9355

**restraint systems, functional comparison,**

- 17413

**shop practices, Army technical manual,**

- 7400

**Aircraft—Continued**

slender wing-body combinations exhibiting leading-edge separation, aerodynamics, theoretical investigation, 8415  
small, air taxi operators and commercial operators, Federal aviation regulations, 12498, 14008  
small, airworthiness directives, summary, 3918, 11007, 16562  
structures, fatigue, 17062  
supersonic—  
human operator response speed, etc., review, analysis and device demonstration, 16904  
jets, prediction of near field noise, 14400  
transport, high-energy fields for reserves, 11532  
supplemental type certificates, 3921  
time-lapse photography, using for cloud measurements, 10967  
titles and security documents, recording, Federal aviation regulations, 7948, 14004  
transport—  
gas-turbine units, friction and leakage losses in blade-rings, 5277  
simulator and flight study of yaw coupling in turning maneuvers, 11494  
V/STOL concepts, feasibility for short haul, study, 5171, 12851, 16920  
type certificate data sheets and specifications, 3018, 12487  
United States—  
civil, census, Dec. 31, 1965, 16549  
Navy aircraft, lithographs, 11650  
V/STOL—  
height control requirements for hovering and low speed flight under visual conditions, 11524  
longitudinal aerodynamic characteristics in ground effect of large-scale model with tilting ducted fans arranged in dual tandem configuration, 18045  
tilting wing configuration with left- and right-hand rotating of propeller, aerodynamic data, 6855  
tilting wing, large semispan, with 0.5-diameter chord, etc., aerodynamic data, 9879  
variable-stability transport influence of response feedback loops on lateral-directional dynamics, 11516  
VTOL—  
flight patterns, medico-physiological incidences on pilot, 11563  
free stream interference effects on effectiveness of control jets near wing tip of model, 14478  
jet-ejector system for lift augmentation, wind-tunnel investigation, 2706  
models in wind tunnels with 7 by 10 proportions, tables of interference factors for use in correcting data, 9825  
wing body combinations, cranked leading edge, aerodynamic characteristics, 18039  
XV-9A hot cycle research, 20-hour follow-on flight program, summary report, 7410  
see also Air carriers—Airplanes—Fighter planes—Flight—Landing (aircraft)—Sonic boom—Spacecraft—Stall (aircraft)—also names of aircraft parts, e.g. Propellers.  
Aircraft accidents:  
civil aviation—  
briefs (periodical), 7518, 13014  
summary reports (periodical), 3923  
crash protection padding materials, evaluation of various types, 5803  
crash survival design guide, 13309  
emergency evacuation tests of crashed L-1649, 10321  
firefighting and rescue vehicles, engineering observations, 9999

**Aircraft accidents—Continued**

full-scale fire modeling test studies of light water and protein type foams, 17092  
general aviation, small fixed-wing aircraft, briefs (periodical), 3063  
impairment of airmanship by alcohol, 4251  
incident investigation and reporting, FAA handbook, 4755  
injury potentials of light-aircraft instrument panels, 1820  
investigation reports, 4369-70, 10404, 17059-60  
low-level operational hazards, 4223  
smoke hood to protect passenger, aviation medical report, 14812  
stall barrier as new preventive, 1823  
visual illusions, 11958  
Aircraft carriers:  
altitude rate command system for aircraft landings, 9997  
outfitting, procurement of spare aircraft parts, potential savings, Navy Dept., GAO report, 8136  
Aircraft engines, see Engines (aircraft).  
Aircraft repair station, Federal aviation regulations, 9444  
Aircrew station vision requirements for military aircraft, 16470  
Aircrews, see Flight crews.  
Airdrop operations, see Air drop operations.  
Airfields, see Aviation fields—Hellports—Pavements.  
Airfoils:  
circulation control, by means of jets, investigation, 7408  
leading edge heat transfer, effects of shock-wave impingement, 6896  
static 2-dimensional data, comparison with chordwise pressure distributions measured in flight on helicopter rotor blade, 11502  
Airframes:  
integration with propulsion-system for Mach 6 cruise vehicles, 18010  
structural components, Federal item identification guides for supply cataloging, supplements, 3293  
Airlift, see Transportation.  
Airlines, see Air carriers.  
Airmen:  
airman jobs, merited grade versus merited pay rankings, 7339  
airman's information manuals, 93, 3020-23, 10976-978  
international notams, 3437  
job-satisfaction, follow-up survey, 10241  
jobs, comparison of merited grade and skill level ratings, 4172  
maintenance certification procedures, FAA handbook, 10981  
miscellaneous statistics, 7952  
occupational handbook, manual for guidance counselors, 15902  
other than flight crewmembers, certification, Federal aviation regulations, 2235, 10993  
Pacific airman's guide and chart supplement (periodical), 3668, 12500  
performance in administrative career ladder, describing by identifying patterns of trait ratings, 11952  
see also Aviators—Notice to airmen.  
Airplane mechanics, see Mechanics (persons).  
Airplanes:  
airworthiness standards—  
normal, utility and acrobatic category, Federal aviation regulations, 12490-491, 14002  
transport categories, Federal aviation regulations, 2234, 12492, 16551-552  
aspect-ratio-6 conical parawing utility model, flight characteristics, wind tunnel investigation, 5229

**Airplanes—Continued**

bomber training operations in Chicago area, sonic-boom measurements, 1481  
 cargo-type models, atting-support interference on aerodynamic characteristics, 12938  
 export airworthiness approval procedures, 8044  
 external-store separation characteristics, NASA data, summary, 2686  
 4-propeller tilt-wing configuration, ground effects over fixed and moving ground plane, 11504  
 general aviation, category 2 operations, 17742  
 general operating and flight rules, Federal aviation regulations, 7951, 10995, 12495-496, 14006  
 general purpose airborne simulator, 5161  
 jet fuel anti-icing additive, effects on fuel tank linings, final report, 9991  
 jet transport, handling qualities and airworthiness criteria during takeoff, research simulator for investigating, validation, 1476  
 landing loads on vehicle with tricycle landing gear, theoretical dynamic analysis, 14472  
 noise measurement evaluations of various take-off/climbout profiles of 4-engine turbojet transport, 2699  
 sailing concept model, aerodynamic characteristics, full-scale investigation, 14465  
 STOL, directional augmentation for 4-propellered transport, flight and simulator study, 9890  
 supersonic fighter-bomber model, with external fuel tanks and other modifications, transonic aerodynamic characteristics, 1505  
 supersonic transport—  
     configuration, maneuver speed increases in relation to speed margins, simulator investigation, 16972  
     configuration with variable-sweep wing, pitch maneuver speed margins, investigation, 17000  
     environment, fatigue behavior of simulated wing structure, 16905  
     inlet sensitivity study, 8496  
     jet in-flight simulation to determine flight characteristics during landing approach, 12926  
     model with highly swept arrow wing, low subsonic flight and force investigation, 12924  
     pictorial navigation display in instrument departures, simulator study, 12944  
 transport—  
     cruising at Mach number 3, dynamic stability and control characteristics, errata, 14447  
     model, using blowing over flaps for boundary-layer control, investigation over moving ground plane, 14477  
     subsonic with aft engine nacelles and high tail, large-scale wind-tunnel tests, 5268  
 twin turbojet, effects of aft-fuselage-mounted nacelles on subsonic longitudinal aerodynamic characteristics, 2730  
 V/STOL—  
     aerodynamic data on—  
         large-scale semispan tilt-wing configuration, 15557  
         large tilting wing, etc., in presence of fuselage, 1485  
 transport model, with lift and lift-cruise fans, aerodynamic characteristics, 14484  
 wing-body configurations, canard controls, hypersonic aerodynamic characteristics, 2707

**Airplanes—Continued**

wings and wing-body combinations in supersonic flow, integrated approach to analysis and design, 1493  
 X-15—  
     landing contact conditions, statistical analysis, 5271  
     operation and cost experience as reusable space vehicle, 2711  
     vertical-scale, fixed index instrument display panel evaluation, 9918  
 X-15-2 research, ablative heat shield materials, arc-tunnel evaluation, 5238  
 XB-70—  
     encounters with high-altitude turbulence, preliminary evaluation, 18038  
     landing-contact conditions, statistical analysis, 11548  
 XV-11A, description and preliminary flight test, 11997  
*see also Aircraft.*  
**Airports:**  
     activity statistics of certificated route air carriers, 7517, 16547  
     alleviating congestion at major metropolitan centers (address), 17446  
     America's airport beautification awards program, 17741  
     aviation demand and airport facility requirement forecasts through 1980 for large air transportation hubs, 15904  
     design, aircraft data, change, 13999  
     directory, airman's information manual, 93, 3021, 10977  
     economy approach lighting aids, 10245  
     Federal aid program, Federal aviation regulations, 4759, 14009, 16557  
     Federal participation in cost of projects involving donated land, GAO review, 15300  
     ground operations, propagation of sound, 11404  
     influence on community economy, 14786  
     location identifiers, handbook, 3524, 11970  
     national airport plan, capacity criteria, 4190  
     national parks, etc., authorization, increase, law, 467  
     national plan, 8871  
     problems of over-saturation and underutilization (address), 17446  
     public, acquisition of U.S. land, Federal aviation regulations, 14010  
     utility, design criteria and dimensional standards, 14014  
*see also Air traffic—Pavements—also names of places where located.*  
 Atrickness, *see Motion sickness.*  
 Airspace utilization, *see Air traffic.*  
 Airspaces (streets, highways, etc.):  
     use of air space in District of Columbia, authorize leases, bearings, 16407, 17598  
**Airways:**  
     Alaska, routes, certificated, map, 4371  
     domestic, international and overseas routes for U.S. certificated cargo carriers, map, 4377  
     international and overseas routes, map, 4372  
     navigable airspace, objects affecting, Federal aviation regulations, 10994, 15238  
     routes to U.S. authorized to foreign air carriers under permit, maps—  
         Eastern Hemisphere countries, 4373  
         Western Hemisphere countries, 4374  
     U.S. transportation system routes certificated local, maps—  
         service carriers, 4375  
         trunkline carriers, 4376  
 Airworthiness, *see Aircraft—Airplanes—Engines (aircraft)—Propellers—Rotorcraft.*  
 Aisenberg, S., plasma boundary interactions, 15512  
 Aitkin County, Minn., rural county cares for its aging, 4082

# INDEX 1967

Akademik S. Vavilov (USSR ship):  
 expedition to Red and Mediterranean  
 Seas, results, 15352

Akamline, E. K., dosimetry, tolerance, and  
 shelf life extension related to disinfection  
 of fruits and vegetables by gamma  
 irradiation, 5794

Akre, Philip R., multifocal premature con-  
 tractions, ECG finding of grave signifi-  
 cance, 15897

Akron, Ohio, area wage survey, 17892

Alabama:  
 bromide and iodide in oilfield brines in  
 some Tertiary and Cretaceous forma-  
 tions, 11385  
 census of agriculture, 1964, State and  
 county statistics, 8963  
 census of manufactures, 1963, area  
 statistics, 152  
 census of mineral industries, 1963, area  
 statistics, 5821  
 climatological data, 3096  
 coast, hurricane survey, engineer report—  
 departmental edition, 10948  
 document edition, 10507  
 county business patterns, 4306, 12042,  
 17425  
 crayfish from caves, 17050  
 electric rate book, 4772  
 landings, fish and shellfish, 3024, 16616  
 mineral industry, minerals yearbook  
 chapter, 2548  
 northeastern, bauxite and clay deposits,  
 2357  
 postal map, 15649  
 precipitation data, hourly, 3401  
 salt domes, survey, 2541  
 welfare funds cutoff, hearings, 6096

Alabama River, Millers Ferry Lock and  
 Dam, navigation conditions, hydraulic  
 model investigation, 10961

Alaka, M. A., experiment in use of balance  
 equation in tropics, 9429

Alameda County, Calif.:  
 land conveyance to—  
 hearings, 16303  
 law, 17539  
 reports, 13669, 15128

Alanines, energy dependence of free radical  
 production, 1744

Alarm systems:  
 Federal item identification guides for  
 supply cataloging, supplements, 3289  
 multiple meter monitoring circuits served  
 by single alarm, 17980

Alashan Desert, geographical study, 2434

Alaska:  
 air carrier routes, map, 4372  
 allow use of British Columbia ferries for  
 Alaska-bound cargo, hearing, 13851  
 Cenozoic pectinids, 11180  
 census of agriculture, 1964, State and  
 county statistics, 14838  
 census of mineral industries, 1963, area  
 statistics, 4280  
 certificated air routes, map, 4371  
 climatological data, 3096  
 coal resources, 8157  
 Cape Lisburne-Colville River region,  
 15306  
 coast pilot, Pacific and Arctic Coasts,  
 Cape Spencer to Beaufort Sea, supple-  
 ment, 5945  
 coastal warning facilities chart, 14717  
 communication facilities between Alaska  
 and U.S. mainland, economical use, Air  
 Force Dept., GAO report, 15301  
 county business patterns, 168, 12043  
 Cretaceous ammonites from Matanuska  
 Formation, 8170  
 destructive forest insects, identification,  
 14085  
 dietary survey, 14623  
 earthquake, 1964—  
 and aftershocks, Prince William Sound,  
 research studies, 12117

Alaska—Continued  
 earthquake, 1964—continued  
 effects on—  
 communities (series), 11175-176  
 Eklutna hydroelectric project, An-  
 chorage, Alaska, 6402  
 glaciers, 11178  
 hydrologic regimen (series), 1122-23,  
 11177-178  
 south-central, air and water trans-  
 port, communications, and utilities  
 systems, 12609  
 transportation, communications, and  
 utilities (series), 6402, 12609  
 field investigations and reconstruction  
 effort, 8169  
 geologic setting and effects, summary  
 description, 8169  
 horizontal and vertical crustal move-  
 ment in Prince William Sound, 5940  
 regional effects (series), 1121, 2370-71  
 east-central—  
 Cambrian and Ordovician rocks, stratig-  
 raphy, 6404  
 lower Paleozoic paleontology and stratig-  
 raphy of east-central Alaska (series),  
 6404  
 economic development, report, 1939  
 electric rate book, 11018  
 fisheries, 1965, annual summary, 9512  
 glimpse at history and the future (re-  
 marks), 10904  
 housing legislation, law, 465  
 Indian and native health program,  
 nurses, examination announcement,  
 10436  
 Indians, Eskimos, and Aleuts, general in-  
 formation, 2389  
 Iniskin-Tuxedni region, geology, 8163  
 interior—  
 photo identification guide for land and  
 forest types, 15287  
 trees, specific gravity of increment cores,  
 4835  
 long-lines communication facilities, Gov-  
 ernment-owned, disposal—  
 hearings, 16307  
 reports, 10747, 16262  
 long range economic planning, authorize  
 funds—  
 law, 14913  
 reports, 12375, 13679  
 migratory birds, Federal regulations gov-  
 erning hunting, etc., 14061  
 military personnel of U.S. Army ordered  
 to, helpful hints, 8882  
 mineral and water resources, print addi-  
 tional copies, report, 13051  
 mineral industry, minerals yearbook  
 chapter, 5108  
 Mount Fairplay area, geology, 12599  
 natives, dental services—  
 1966, annual report, 2810  
 1967, annual report, 18169  
 natural resources, 1139  
 and Rampart project, 12636  
 nautical chart catalog, 216  
 northern, naval petroleum reserve no. 4  
 and adjacent areas, exploration (series),  
 8159  
 northwestern—  
 areal geology of Charlot site, 8162  
 Project Charlot, potential effects on lo-  
 cal water supplies, 2369  
 nursing home care for veterans, eliminate  
 certain requirements, report, 6007  
 omnibus act, semiannual report on earth-  
 quake reconstruction activities, 9058,  
 16159  
 place names, dictionary, 14174  
 public lands, Taylor grazing act exchange  
 authority to apply to Alaska, report,  
 875



- Alaska—Continued  
purchase, 8-cent commemorative air mail postage stamp (poster), 7040  
snow surveys, 3317  
southeastern—  
DDT effects on ecology of salmon streams, 8040  
effects of slash burning on conifer regeneration, 4834  
recent Foraminifera, 12614  
transportation of merchandise in part over Canadian highways, exempt from Merchant marine act, report, 15107  
stratigraphy of Keku Islets, Kulu Island, and Kupreanof Islands, 12600  
Tertiary plants from Cook Inlet region, 2365  
trade study, 15243  
USDA programs, etc., and their application to Alaska (address), 25  
White Mountain mercury deposit, investigations, 6877  
Alaska Agricultural Experiment Station: transfer to University of Alaska—  
law, 866  
report, 660  
Alaska, Field Committee for Development Planning in. *see* Federal Field Committee for Development Planning in Alaska.  
Alaska, Gulf of, recent Foraminifera, 12614  
Alaska, Highway, appropriation for construction, reconstruction, etc., hearings, 17673  
Albania:  
background notes, 11814  
capsule facts for Armed Forces, 15913  
press information report, 3701  
Albany, N.Y., area wage survey, 12772  
Albany Metallurgy Research Center, metallurgical progress reports, 1807, 5795  
Albedo, planetary, effect on solar orientation of spacecraft, 16985  
Alberg, Mary, differential energy and angle spectra for Cs-137 gamma rays in water and air, 13326  
Albers, John P., mineral resources of California, 2124  
Albin, Donald R., water resources of Jackson and Independence Counties, Ark., 14181  
Albo Maya, Jacobo, relief, 560  
Albumin:  
change in normal human serum parameters during simulated altitude and aerospace flights, 8868  
radioactive, vascular and lymphatic absorption from lungs, 13269  
Albuquerque, N. Mex., area wage survey, 12770  
Alcocer, Julio F. D., *see* Dumas y Alcocer, Julio F., and wife.  
Alcohol:  
denatured, distribution and use, code of Federal regulations, 8222  
impairment of airmanship, 4251  
industries, 1966, statistics, 6453  
monohydric and polyhydric, transesterification of phosphites and phosphinites, USSR study, 1210  
*see also* Alcoholism.  
Alcohol and Tobacco Tax Division, available forms relating to activities of Division, description, 16720  
Alcoholic beverages, *see* Liquors.  
Alcoholism:  
alcohol and alcoholism, 15675  
alcohol education, conference proceedings, 8187  
alcohol, fun or folly, illustrated pamphlet, 18104  
prevention and treatment in District of Columbia, hearings, 13702  
Aleyonaria, *see* Corals.  
Aldehydes, common names, flash point, etc., technical reference, 9736  
Alder, Albert V., F-106B aircraft flashblindness experiment, 17349  
Alderman, Alice J., prescribed and non-prescribed medicine, type and use, etc., 18188  
Aleutian Islands, nautical chart catalog, 216  
Aleuts:  
Alaska, general information, 2389  
dental health program, 11724  
Alexander, Allen L., chemical research in atmosphere purification and control on nuclear-powered submarines, 17084  
Alexander, Clifford L., jr., nomination, bearing, 17667  
Alexander, John A., composite materials for space vehicle application, 12861  
Alexander, Robert R.:  
site indexes for lodgepole pine, with corrections for stand density—  
instructions for field use, 2333  
methodology, 14145  
stocking of reproduction on spruce-fir clear-cuttings in Colorado, 2314  
Alexander, S. Kern, public school finance program, 17724  
Alexander, T. A., chorioretinal lesions by thermal radiation, 10231  
Alfalfa:  
genetic traits in tetraploid and diploid, illustrated summary, 8849  
pea aphids, how to control, 7274  
screening and testing for resistance to alfalfa seed chalcid, procedures, 14733  
technical alfalfa conference proceedings, 7  
Algae:  
algal growth aqueous factors, selected biological references, 6338  
combined propagation of unicellular algae and bacteria, Hungarian study, 12691  
Algebra:  
college, study guide, 9363  
Lie series, new method for numerical integration of ordinary differential equations, 9877  
real linear algebras, characterizations, 6898  
*see also* Matrices (mathematics).  
Algebraic methods for dynamic systems, 2600  
Alger, Donald, measurement of effective delayed neutron fraction for NASA Zero Power Reactor I, 2694  
Algeria:  
agricultural commodities, agreement, 2892  
capsule facts for Armed Forces, 13284  
labor conditions, 1364  
mineral industry, minerals yearbook chapter, 2549  
Algesimeters, modified to provide accurate depth measurements, 6809  
Algonac Manufacturing Co., claim, 13586  
Algorithms, *see* Arithmetic.—Mathematics.  
Aliens:  
code of Federal regulations, 7976  
deportation suspension, reports, 15075-76  
permanent residence, oppose granting to certain aliens, 615  
Alignment of inertial systems on moving base, 16976  
Alimentary canal, tumors of alimentary tract in Africans, symposium, 14632  
Alkali halides, perturbation times in alkali-halide systems, 9996  
Alkali metals:  
dispersions, process for preparing, 6801  
ultra pure, ultra pure transition elements in, solubility studies, 1424  
Alkyl compounds, selective inhibition of non-specific cholinesterase by some O,O-diethyl-S-alkylthiophosphates, USSR study, 15402, 16733  
All hands, Naval Personnel Bureau career publication, 3025

# INDEX 1967

## All-Union :

- NOTE.—For headings beginning All-Union, see Union of Soviet Socialist Republics.
- Allbright, Charles S., hydrogenation studies of distillate fuels, 12817
- Allegan, Mich., meteorite, composition, 18089
- Allegheny River and Valley, chemical quality of surface water in basin, Pa. and N.Y., 8180
- Allen, David B., address, June 22, 1967, 13047
- Allen, Edward P., free world production and trade in selected household appliances, 7573
- Allen, George, livestock-feed relationships, 1909-65, supplement, 1720
- Allen, Harry W., Bredin-Archbold-Smithsonian biological survey of Dominica, new species of *Tiphia*, 14540
- Allen, Jerry M., turbulent-boundary layer characteristics of pointed slender bodies of revolution at supersonic speeds, 18026
- Allen, Philip T., farm real-estate credit, analysis of borrowers and lenders, 2170
- Allentown, Pa., area wage survey, 11324
- Allergy, aviators, 14782
- Alliance for progress, see Latin America.
- Allied Forces in Europe, see North Atlantic Treaty Organization.
- Allied Health Professions Education Subcommittee of National Advisory Health Council, report, 14622
- Allison, Lewis J., synoptic world weather analysis of TIROS VII radiation data, 12922
- Allotments (Army), see Pay, allowances, etc.
- Allowances, see Pay, allowances, etc.
- Alloys :
- alloy 718, application in M-1 engine components, 12862
  - analysis procedures, 9985
  - biaxially stressed D43 alloy with refluxing potassium, compatibility, 11422
  - brazing, holds bonding strength over wide temperature range, 5207
  - composition determined by thermoelectric metal comparator, 8387
  - development, designs of experiments as telescoping sequences of blocks for optimum seeking, 14490
  - dispersion alloys, selected submicron powder blending methods, comparison, 6880
  - high temperature oxides, bonding, 10016
  - identification symbols, Communist China, 6547
  - oxide dispersion strengthened alloys, 17951
  - silver-base ternary alloy proves superior for slip ring lead wires, 5212
  - thermophysical properties—
    - 8 alloys, their constituents, and oxides, technical report, announcement and procurement information, 9798
    - investigation by torsion-effusion technique, 17924
  - see also names of metals, etc.
- Allred, James E., design and development of automatic indirect blood pressure monitoring device, 73
- Allsman, Paul L. :  
cement, 5098  
lime, 2546
- Alluisi, Earl A., code transformation task that provides performance measures of nonverbal mediation (Cotran), 16916
- Alluviums :
- Kern River, 1116
  - sediment transport in alluvial channels (series), 11181, 16695
- Alma-Ata, Kazakh SSR, dam construction, eyewitness report, 14244

## Almanaca :

- air, 2767, 11626, 15621
- National Institutes of Health, 10055
- nautical—
- 1968, American ephemeris and nautical almanac, 2768
  - supplement, 6995
  - 1968 calendar year, 11627
- Almena unit, see Missouri River Basin project.
- Almost 65? here is important information for you, 5510
- from your pharmacist, 5500, 8688
- Alonso-Garcia, Armando J., relief, 9195
- Alosa sapidissima, see Shad.
- Alouette satellite, see Satellites.
- Alpendre Seisdedos, Manuel, relief, 12341, 16212, 17513
- Alpha particles :
- backscattering measurements used for chemical analysis of surfaces, 12840
  - breakup of deuterons, mechanism, 18032
  - (d,  $\alpha$ ) reaction on—
    - aluminum 27, 6852, 14448
    - fluorine 19 and nitrogen 15, interpretation, 9873
    - scandium 45, differential cross section, 16989
  - elastic and inelastic scattering from even tellurium isotopes, 11536
  - monoenergetic X-rays from alpha emitting isotopes, generation and use, 4234
- 9-alpha-fluorohydrocortisone, see Hydrocortisone.
- Alsina, Rita M. Garmendia de, see Garmendia de Alsina, Rita M.
- Altavista, Va., motor carrier accident, 6476
- Alternating currents, see Electricity.
- Alternatives to incarceration, studies in delinquency, 10135
- Alternators, see Electric generators.
- Altitude :
- accommodation, low doses of acetazolamide to aid men, 1736
  - dysbarism, treatment with oxygen under high pressure, 7367
  - effects on body compartments of rats, 10295
  - electrons at synchronous altitudes, trapped radiation environment models, 8437
  - elevation effects on rainfall near Hollis, Alaska, 16655
  - energy, nitrogen, and water requirements of normal adults residing at 4300 meters for 28 days, 14806
  - high—
    - cardiopulmonary responses of resting man during early exposure, 7413
    - man's adaptation to lower Caucasus, USSR study, 14276
  - metabolic effects of prolonged bed rest, their modification by simulated altitude, 14777
  - oxygen requirements, 8921
  - relationship between—
    - altitude and micropopulation, 1733
    - frontal activity and micropopulation at altitude, 1732
  - respiratory function in normal young adults at 3475 and 4300 meters, 5753
  - scale heights in topside ionosphere, Alouette I observations, 2617, 6736
  - summary graphs, 16930
  - simulated, normal human serum parameters, 7341-42
- Altitude rate command system, 9997
- Altman, L. B., electric water pumps on farm, 10176
- Alumina :
- alkalized, system for SO<sub>2</sub> removal, process development in removing sulfur dioxide from hot flue gases, pilot plant study, 12831
  - extractability from anorthosite by lime soda sinter process, correlation of reaction products, 9784



Alumina—Continued  
 fused crude aluminum oxide, disposal from national and supplemental stockpiles—  
 law, 437  
 reports, 685, 922  
 lime-soda sinter process for producing from clay, evaluation, 9779  
 Pederson process adaptation to ferruginous bauxites of Pacific Northwest, 9788  
 tritiated, serves as reagent for self-labeling analysis, 16886  
*see also* Boehmites.  
 Aluminate, solutions, desilicizing, USSR study, 9645  
 Aluminum:  
 alloys—  
 aqueous environments, crack propagation, delayed failure, and residual static strength, 6872  
 friction of copper-aluminum alloys, possible relation with stacking-fault energy, 8490  
 heat treatment study of aluminum casting alloy M45, 12892  
 materials data handbooks, announcements, 9851, 17956  
 sheet, uniaxial and biaxial fracture toughness, 11552  
 treatment increases stress-corrosion resistance, 6760  
 weldable, high strength, developed for cryogenic service, 6776  
 welds, effect of welding position on porosity formation, 12903  
 aluminized thin-window proportional-counter tube is stronger, more responsive in long wavelength region, 8451  
 aluminum-titanium hydride-boron carbide composite provides lightweight neutron shield material, 16878  
 BDSA looks at domestic aluminum situation (address), 5806  
 chemistry of aluminum in natural water (series), 15313  
 corrosion in water, 17938  
 electrodeless nickel plating, 5202  
 electrolysis, fluorine balance determination, USSR study, 9645  
 electrothermal method for producing aluminum and its alloys, history, USSR study, 12719  
 forgings, industry, notice to trade, 10332  
 fracture toughness of wide 2014-T6 aluminum sheet at  $-320^{\circ}\text{F}$ , 12936  
 fusion welds, continuous internal channels produced, 12909  
 identification marking, Federal standard, 8008  
 industry, Japan, 9015  
 ingot and mill products, current industrial reports, 3169, 15991  
 potential resources of the world, 8154  
 potential sources, 14325  
 primary, monthly report, 3768  
 products, preparation for shipment and storage, military standard, 16466  
 projectile size effects on hypervelocity impact craters in aluminum, 14468  
 scrap and secondary ingot, mineral industry survey, monthly, 3855  
 sintered aluminum powder (SAP), used for manufacture of pistons for high-speed engines, USSR study, 4969  
 Ti-8Al-1Mo-IV simulated structure, fusion welded, fatigue behavior, 16905  
 welds improved by bead removal, 8457  
 zircaloy-aluminum composite pressure tubing, fabrication process, development, 8907  
*see also* names of articles manufactured from aluminum.

Aluminum Company of America, wage chronology, 16821  
 Aluminum foil, converted, current industrial reports, 17429  
 Aluminum hydroxide, complexes in dilute solution, form and stability, 15313  
 Aluminum isotopes, Al 27, investigation of (d, $\alpha$ ) reaction, 6852, 14448  
 Aluminum oxide, *see* Alumina.  
 Aluminum silicates, *see* Silicates.  
 Alvarez-Gomez, Anselmo S., relief, 9207, 12150, 12218  
 AM series, 136-141, 1820-23, 4248-55, 5802-4, 7446-47, 10320-322, 13351, 14812, 15979-981, 17410-414  
 Amado, Julian B., relief, 10721  
 Amado, Manuel S. B., relief, 10721  
 Amat, Alberto Fernandez-Bravo y, *see* Fernandez-Bravo y Amat, Alberto.  
 Amateur Athletic Union, controversy with NCAA, status, hearing, 17646  
 Ambiguity function independent of assumptions about bandwidth and carrier frequency, 8598  
 Amblycera, *see* Lice.  
 Ambrose, Paul M.:  
 abrasive materials, 5097  
 fluorspar in 1966, preliminary report, 5103  
 sulfur and pyrites, 6692  
 sulfur in 1966, preliminary, 5135  
 Ambrosia beetles, *see* Beetles.  
 Ambulances:  
 2d and 3d class postal rates for volunteer ambulance and rescue companies, extend, report, 694  
 standard models and special equipment requirements, military standard, 15189  
 AMC, *see* Army Materiel Command.  
 Ament, W. S., Brownian motion as route to statistical mechanics, etc., 8597  
 America:  
 Alouette I observations over continents, 2617  
 summary graphs, 16930  
 America's airport beautification awards program, 17741  
 18th century, floor coverings, 14530  
 goals for urban America (address), 17022  
 industrial and occupational manpower requirements, 1964-75, study, 6603  
 metropolitan, challenge to Federalism, study, 2048  
 print additional copies, reports, 10590, 10785  
 new era for America's waters, 6342  
 science and America's beauty, 15841  
 trails, report on nationwide trails study, 5367  
*see* Central America—Latin America—North America—South America—United States.  
 America illustrated (periodical):  
 Polish language edition, 3026  
 Russian language edition, 3027  
 American Academy in Rome:  
 real and personal property, increase amount—  
 law, 16135  
 report, 14966  
 American Association of State Highway Officials:  
 report on Federal-aid highway needs after 1972, 12314, 12321  
 print as Senate document, report, 12370  
 American Battle Monuments Commission:  
 appropriations, 1967, law, 501  
 appropriations, 1968—  
 hearings, 10632, 16390  
 reports, 10616, 16372  
 American Cancer Society, Massachusetts Division, gas-liquid chromatograph mass spectrometer, duty-free entry, 13775, 14901  
 American Ceramic Society, nuclear science and technology for ceramists, symposium, proceedings, 12982

# INDEX 1967

- American education (periodical), 3028
- American ephemeris and nautical almanac, 2768
  - supplement, 6995
- American Ethnology Bureau, bulletins, 8872, 11973
- American Expeditionary Forces:
  - battle art, exhibition, 8680
  - cartographic records, 1917-21, preliminary inventory, 14508
- American Falls Reservoir, ground water in vicinity, 17832
- American Federation of Labor-Congress of Industrial Organizations, civil defense policy resolutions, 1903, 17432
- American Flyers Airline Corporation, accident, 10404
- American Historical Association:
  - report, 1965—
    - departmental edition, 1747
    - document edition, 2010
- American history, *see* History—Naval history.
- American History Month:
  - designate—
    - law, 472
  - report, 10773
- American Indians, *see* Indians.
- American Institute of Architects, Brooklyn Chapter, awards in fallout shelter competition, 7529
- American Instructors of the Deaf, Convention of, *see* Convention of American Instructors of the Deaf.
- American Journal of Nursing, relief, 7631
- American Legion:
  - convention, 1966, proceedings, 12197
  - legislative program, hearings, 9172
  - membership eligibility, redefine—
    - law, 363
  - report, 894
- American Meteorological Society, meteorological geostrophysical abstracts, 3636
- American Motors Corporation, adjustment assistance case pertaining to certain workers, excerpts from Tariff Commission report to Automotive Agreement Adjustment Assistance Board, 10112-113
- American National Red Cross, community involvement in civil defense, suggestions, 16051
- American Nuclear Society, special sessions on radiation transport and biological effects, proceedings, 13314
- American parade of politics, 10078
- American Petroleum Co., of Texas, relief, 15066, 16226, 17524
- American policy, *see* International relations.
- American republics:
  - Inter-American series, 11828
  - plan for decade of urgency, commitment for progress, declaration of Presidents of America, Punta del Estes, Uruguay, 11828
  - waterborne transportation, Inter-American convention, report, 6065
- American Revolution Bicentennial Commission, act, amend rel. to membership, report, and authorization, report, 13681
- American Samoa:
  - county business patterns, 13385
  - Geniostoma, description, title page and index, 17048
  - Governor, annual report, 12637
  - nautical chart catalog, 7558
  - social security tax guide for employers, 2402
- American Society for Testing and Materials, metric practice guide, 6915
- American States, *see* American republics.
- American Veterans of World War II, legislative program, hearings, 9172
- American Viscose Corp., wage chronology, 16822
- Americans:
  - meet at home, extend friendship to visitors from throughout world, 10126
  - officials and their families, social usage abroad, guide, 8712
- Americas, *see* American republics.
- America's day begins in Guam, U.S.A., 9584
- America's department of natural resources, 2391
- Americium, apparatus for fabrication of americium-beryllium neutron sources prevents capsule contamination, 14366
- Ames Research Center, Moffett Field, Calif., closed life-support system, 15515
- AMG, *see* Acreage marketing guides.
- Amidon, Elliot L., MIASDSZ, alphanumeric map information assembly and display system for large computer, 14142
- Amines:
  - controlling off-site hardwoods with 2,4-D amine concentrate, 12583
  - m-aminobenzyl amine (MABA), syntheses, properties, and uses, 9989
  - tissue, alterations by toxic decaborane-14 and pentaborane-9, modified by hydrazines and propylamines, studies, 7337
- Amino acids, aromatic L-amino acid decarboxylase inhibition by decarborane, 14775
- Amino compounds, concentration in rat plasma, effects of ionizing radiation, 3714
- Amino resins, *see* Resins.
- Ammonia:
  - compatibility with balloon fabrics, 4836
  - use with coal for hydrogen cyanide production, 14349
- Ammonites, Cretaceous, from Matanuska Formation, 8170
- Ammonium bisulfate, fusion with euxenite metal, extraction of values, 6685
- Ammonium nitrate, sympathetic detonation, studies, 5131
- Ammonium sulfate, fusion with euxenite metal, extraction of values, 6685
- Ammunition:
  - color coding, military standard, 16467
  - control of projectile flight characteristics, engineering design handbook, 1751
  - Federal item identification guides for supply cataloging, supplements, 3293
  - inert components, packaging, packing, and marking, military standard, 10899
  - rigging, for low and high velocity airdrop, 7399, 13303
  - shipments, indemnification for losses arising from, agreement with Great Britain, 7154
  - small arms ammunition, identification guide, 5738
  - specialized ammunition machinery, industrial plant equipment handbook, 9367
  - transporting, Navy driver's handbook, 7009
- Amortization, *see* Mortgages.
- Amphiscidae, *see* Amphipods.
- Amphibious operations:
  - amphibious training manual, 16839
  - antimechanized operations, Fleet Marine Force manual, 16841
  - engineer amphibious units, Army field manual, 4204
  - reconnaissance, Fleet Marine Force manual, change, 12782
- Amphipods:
  - benthic Amphipoda of Monterey Bay, Calif., 2751
  - gammairidean, bathyl and abyssal, of Cedros Trench, Baja California, 17046
  - Morro Bay, Calif., benthic survey, 6956
  - Pacific Amphiscidae, species, etc., 6961
  - pelagic amphipod Cyphocaris challenger in northeast Pacific (Gammaridea: Lysianassidae), variation and distribution, 6967
  - subterranean, genus Stygonectes (Gammaridae), systematics, speciation, and distribution, 12996

- Ampian, Sarkis G., lime soda sinter process, extractability of alumina from anorthosite, 9784
- Amplifiers:  
drift tester, 8503  
electrometer, operates over dynamic range of 5 orders of magnitude, 14414  
field effect transistors improve buffer amplifier, 17961  
fluid amplifier elements, experimental scaling study, 9850  
logarithmic, SiC/Si diode trigger circuit provides automatic range switching, 17957  
microminiature dc signal conditioning system, development, 14483  
miniature electrometer preamplifier compensates for input capacitance, 2666  
nanosecond, discriminator circuit super-regulation, digital system provides, 5147  
operational, limit circuit prevents over-driving, 17925  
provides dual outputs from single source with complete isolation, 14367  
push-pull, circuit provides overcurrent protection, 16948  
transistor biased, minimizes diode discriminator threshold attenuation, 16883  
voltage regulator/amplifier is self-regulated, 11480  
*see also* Fluid amplifiers.
- Amputees, lower extremity, immediate post-surgical prosthetics, 13171
- AMS, *see* Applied mathematics series.
- Amsden formation, *see* Pennsylvanian period.
- Amusements, entertainment expenses, rules for deducting from income tax, 2410
- AMVETS, *see* American Veterans of World War II.
- Anable, Wallace E., electron-beam purification of vanadium, 15480
- Anahelm, Calif., area wage survey, 12773
- Anahuac National Wildlife Refuge, birds, list, 11085
- Analog computers, *see* Electronic computers.
- Analog-to-digital converters:  
analysis and calibration of analog to digital encoders, 9891  
ten-bit, general information, corrected copy, 11486
- Analog to digital encoders, *see* Analog-to-digital converters.
- Analyses, *see* Radioactivation analysis—Radiochemical analysis—Thermogravimetric analysis—*also* names of substances analyzed.
- Analysis and design of space vehicle flight control systems, 12871-876, 14383-384, 15497-503
- Analysts, *see* Management analysts—Public health analysts—Transportation analysts.
- Analytical approach to determination of stellar fields of view, 11557
- Analytical chemistry, *see* Chemistry.
- Analytical Coordination Chemistry Section, annual report, 14518
- Analytical Mass Spectrometry Section, activities, summary, 17041
- Analyzers:  
atmospheric particle analyzer, improved, 15529  
two-dimensional, use of oscilloscope, 15539  
*see also* Pulse analyzers—Spectrum analyzers.
- Anatomy:  
bodily functions, effects of combined space flight factors, USSR study, 2439  
long-term lower body negative pressure, influence on circulatory function of man during prolonged bed rest, 1734
- Anchorage, Alaska:  
earthquake of Mar. 27, 1964—  
effects on Eklutna hydroelectric project, 6402  
effect on hydrology of area, 1123
- Anchorage of seats for automotive vehicles, Federal standard, 6320
- Anchorage for seat belt assemblies in automotive vehicles, Federal standard, 6315
- Anchovies, larvae, distribution and abundance in California current region off California and Baja California 1951-64, summary, 8036
- Ancient Arabic Order of Nobles of Mystic Shrine, regulations for 1967 convention, report, 2088
- Anderson, Arthur, relief, 16177
- Anderson, D. R., normal values for clinical blood chemistry tests of *Macaca mulatta* monkey, 7368
- Anderson, Duwayne M.:  
interface between ice and silicate surfaces, 11982  
phase composition of frozen montmorillonite-water mixtures from heat capacity measurements, 14792  
Umiat bentonite, unusual montmorillonite from Umiat, Alaska, 13291
- Anderson, Hal E., mechanism of fire spread research progress report 2, 2329
- Anderson, Henry W., rainfall and streamflow from small tree-covered and fern-covered and burned watersheds in Hawaii, 8115
- Anderson, James K., bending tests of 2 large-diameter corrugated cylinders with eccentric ring stiffeners, 1506
- Anderson, John L., jr., VULCAN, depletion program for use with independent 1-dimensional spatial calculations, 16990
- Anderson, LeRoy O., selection and use of wood products for home and farm building, 7264
- Anderson, R. V., use of atmospheric-electricity recordings in fog forecasting, 8590
- Anderson, Webster S.:  
lightweight recoverable hydraulic prop, 17913  
test operations of pneumatic vibrating-blade planer, etc., 1411
- Anderson, William D., jr., field guide to snappers (Lutjanidae) of western Atlantic, 8019
- Anderson, Ind., population, special census, 13398
- Andervont, Howard E., journal of National Cancer Institute, 3457
- Andreassi, John L.:  
effects of signal patterning upon vigilance performance and physiological responses, 8585  
vigilance performance and physiological responses under fixed and variable signal schedules, 14590
- Andrews, A. M., remarks, Mar. 1, 1967, 7522
- Andrews, Archie M.:  
addresses, etc.—  
Feb. 20, 1967, 6465  
May 25, 1967, 11228
- Andrews, Edith W., labor law and practice in India, 8300
- Andrews, Richard L., electrodeposition of iridium from fused sodium cyanide and aqueous electrolytes, 16865
- Andrus, J. F., integration of control equations and problem of small time constants, 8505
- Anemia, equine infectious anemia (swamp fever), questions and answers, 14756
- Anesthetics:  
anesthetized dogs, cardiovascular responses during repeated decompressions to near-vacuuming, 78  
apparatus for inhalation anaesthesia for small laboratory animals, USSR study, 1288  
fish, use of MS-222, 8033
- Angel, C. D.:  
fluid handling, classification definitions, 18126  
geometrical instruments, classification definitions, 18120

# INDEX 1967

- Angel, C. D.—Continued  
motor vehicles, classification definitions, 18129
- Angel, J. Lawrence, early skeletons from Tranquillity, Calif., 1531
- Angelfish, South American freshwater, genna *Pterophyllum*, 8539
- Angle of attack:  
entry flight aerodynamics from Apollo mission AS-202, 17009  
Project Fire flight reentry, time history, 18020  
shock layer effects over bodies of revolution, methods for predicting flow, 11507
- Anglin, Ernie L., relationship between magnitude of applied spin recovery moment and ensuing number of recovery turns, 14474
- Angola, *see* Portuguese West Africa.
- Anguilla, *see* Leeward Islands.
- Angular distribution, gamma ray coefficients, compilation, 12013
- Angular momentum, Fortran programs for calculation of Wigner 3j, 6j, and 9j coefficients, 1526
- Anhydrides, phthalic and maleic, from low-temperature lignite tar, 9768
- Anido-Fragulo, Hilario, relief, 9246, 12148, 12217
- Animal industry, *see* Livestock.
- Animal products:  
code of Federal regulations, 9461  
long term forecasts of supply and demand in Venezuela, summary and evaluation, 12456  
trade and tariff information, summaries, 7203
- Animals:  
byproducts, salmonella control, sanitation guidelines for processors, 11922  
cells, infecting with ribonucleic acid of tobacco mosaic virus, possibility problem, USSR study, 6486  
code of Federal regulations, 9461  
damage control policy for Sport Fisheries and Wildlife Bureau, 11078  
damage to seedlings, C-14 labeled tetramine, absorption and distribution, in relation to use in control, 4851  
drug amendments of 1967, hearing, 17605  
electronarcosis and electrosleep, USSR book excerpts, 15396  
experimental formation of interferon in animal organism, characteristics, USSR study, 4989  
experimental, in convulsive states, USSR electron microscopic study of cerebral cortex, 12752  
husbandry, achievements of Belorussian Scientific Research Institute of Animal Husbandry in 50 years of Soviet power, 15421  
in atomic research, uses, etc., 15977  
irradiation of natural animal populations, design of shielded source, 1782
- laboratory—  
apparatus for inhalation anaesthesia, USSR study, 1288  
exposure to space cabin environment, viral antibody production, 74  
live, Federal item identification guides for supply cataloging, supplements, 3292  
popular description of chromosome and animal transplant experiment, USSR, 1307  
psychopharmacology research, handbooks, index, 7083  
surplus disposal on national wildlife refuges, 16622  
vestibular apparatus, USSR studies, 17864  
wild animals as source of food, 4810  
*see also* Diseases of animals—Livestock.
- Anisopodidae, *see* Flies.
- Anisotropy:  
Knoop hardness, stereographic representation, 18051  
neutron production by fusion in class of anisotropic plasmas, 5347  
rock stress determinations, 12818  
ultrasonic pulse measurements in anisotropic lake ice, 1754
- Annealing, TI-8Al-1Mo-IV (duplex-annealed) specimens having various widths, fatigue crack growth, investigation, 8494
- Annelids, crayfishes and their epizoitic ostracod and branchiobdellid associates of Mountain Lake, Va., region, 15604
- Annett, John, use of culling in training tasks, 15635
- Annie B. (vessel):  
documentation with coastwise privileges, report, 10763
- Anniston, Ala., bauxite deposits, 2356
- Annual leave, *see* Leave of absence.
- Annuals (plants):  
flowering, growing, etc., 15853
- Annuities:  
Foreign Service retirement and disability system, increases and adjustments, report, 13795  
Panama Canal noncitizen retirees, increase benefits—  
law, 426  
report, 934  
railroad retirement act—  
adjustments, law, 414  
supplemental, law, 413  
*see also* Civil service pensions—Pensions.
- Annunciators, solid state, facilitates complex system troubleshooting, 2640
- Annunziata, Joseph W., French reactions to American involvement in Vietnam, 5703
- Anodes:  
high rate, exploratory investigation, 8596  
microstructure, 8591
- Anolis, *see* Lizards.
- Anorthosite, alumina extractability by lime soda sinter process, correlation of reaction products, 9784
- Anrrich, Rafael, relief, 555
- Ansley Wilcox House, acquire and preserve as historic site, law, 422
- Antarctic regions:  
Antarctic Journal of United States, 3031  
Antarctic krill, Soviet fishery research, 15345  
bibliography, 6621  
climatological data for Antarctic stations, 6217  
cores, particulate content, 17374  
gazetteer, official standard names, 2355  
ice sheets, effect of basal water layer on dimensions, 4196  
inventory of archived data, 6996  
multilateral treaty, measures in furtherance of principles and objectives, recommendations, 2899  
seismological bulletin (periodical), 3032  
Soviet Committee for Antarctic Research, reports on recent work, 12728  
Soviet research, 10 years, 12755  
Antarctic Treaty, measures in furtherance of principles and objectives, recommendations, 2899
- Antarctica, *see* Antarctic regions.
- Antenna horns:  
errors in gain measurements in standard electromagnetic horns, 9944  
shortened horn-reflector antenna, 8452
- Antennas:  
advanced techniques for rendezvous radar, study, 11403  
Cassegrainian, scanning means for, 12900  
conjugate-pair feed systems, 5360  
experimental Cassegrain-fed monopulse antenna system, 11396  
Gemini VHF-UHF polarization experiment D-14, 10009

- Hartlobe airborne dual antenna system for IFF, Mark X (SIF) system, 5857  
input admittance of coaxial transmission line opening onto flat, dielectric-covered ground plane, 16993  
linear array, turbulent troposphere effect on parameters, USSR study, 5018  
long-wave and ultra-long-wave, design and methods of calculating parameters, USSR study, 15385  
MF/HF communications, engineering-installation standards manual, 4667  
near earth and buried, USSR study, 11262  
probes on Apollo spacecraft, effects on aerodynamic characteristics, 12948  
radiometric horesighting by sequential lobing, 18055  
short-wave logarithmic, USSR study, 11247  
signal processor employing synthetic phase isolator, 11397  
simulator permits preinstallation system checkout, 2648  
structures, construction, lighting and marking, FCC rules and regulations, 3271  
tower antenna structures, USSR study, 1304  
waveguide fed aperture antenna radiating into inhomogeneous lossy dielectric slab, input admittance, 18028
- Anthology of poetry and verse, 4911  
Anthraxite, *see* Coal.  
Anthrax, laboratory diagnosis, accelerated methods, USSR study, 2448  
Anthropology:  
classification, Library of Congress, 5086  
Smithsonian contributions, 1531, 6972-74, 9954, 13001, 14547  
Antiballistic missiles, *see* Missiles.  
Antibiotics, research and production efficiency, Rumanian study, 15404  
Antibodies, *see* Antigens and antibodies.  
Anticholinesterase:  
activity of organophosphorus inhibitors, determination, USSR study, 1168  
properties of O-H-alkyl-S-butyl methyl thiophosphates, USSR study, 8276  
Antidotes, *see* Poisons.  
Antietam National Battlefield Site, general information, 9956  
Antifriction bearings, *see* Bearings (machinery).  
Antigens and antibodies:  
antigen structure of helminths, use of immunoelectrophoresis for study, USSR, 12664  
fluorescent antibodies for rickettsia detection, USSR study, 12666  
indirect hemagglutination test for Mycoplasma pneumoniae employing commercially available antigen and adapted to microtiter technic, 5754  
reactions to bacterial antigens after irradiation, USSR study, 9665  
tissue, changes during process of experimental carcinogenesis, 1156  
viral antibody production in animals expose to space cabin environment, 74  
Antigorite, solution studies, 8160  
Antigua, *see* Leeward Islands.  
Antihemophilic globulin, *see* Globulin.  
Antilles, light list, 12123  
Antimechanized operations, 16841  
Antimissile defense, USSR, 9676  
Antimissile missiles, *see* Missiles.  
Antimony, mineral industry survey, quarterly, 3033  
Antiriot bill, *see* Riots.  
Antitrust Division, review of activities, 8280  
Antitrust laws, *see* Monopolies—Trusts (industrial).  
Antofagasta Province, Chile, geology and ground-water resources, northern part of Salar de Atacama Basin, 11164
- Antoine, Albert C., thermodynamic properties of liquid metal solutions in sodium-mercury system, 9910  
Ants:  
Texas leaf-cutting ants—  
control with mirex, 2325  
description, control, etc., 15278  
Antweiler, J. C., gold-bearing sedimentary rocks in northwest Wyoming, preliminary report, 9569  
Anxiety, antianxiety and antidepressant drugs, uses in psychiatry, etc., 2962  
Anzelewski, Fedja, catalogue and notes on Dürer and his time, 10079  
Aorta:  
aortic baroreceptors, 11278  
aortic insufficiency in flying personnel, 17348  
Aoyagi, Kiyoshi, subsonic transport with aft engine nacelles and high tail, 5268  
Apache Indians:  
Apache Tribe of Mescalero Reservation, judgment funds, consolidation and use, report, 15117  
San Carlos Reservation, longer term leases, authorize, report, 12261  
Apache National Forest, regeneration of mixed conifer clearcuttings, 11126  
Apache Tribe of Mescalero Reservation, *see* Apache Indians.  
Apanasewicz, Nellie, final examination in Russian ten-year school, 1002  
Apartment houses, dwelling units, field burnout tests, 18075  
Aperture reflection coefficient of parallel-plate waveguide by wedge diffraction analysis, 14382  
Aphids:  
balsam woolly aphid—  
infestation in Pacific Northwest, characteristics, 4852  
translocation of dye infested in grand and subalpine firs, 11116  
Apiaries, *see* Bees.  
Apollo project, *see* Project Apollo (man-in-space program).  
Apollo spacecraft, *see* Spacecraft.  
Apostle Islands National Lakeshore:  
establish—  
hearings, 13868  
report, 15109  
Appalachian region:  
development act of 1965—  
project activity supplement, 6159  
revise and extend—  
hearings, 7825, 13713  
law, 17548  
message from the President, 4491  
reports, 7788, 12359, 14957, 14974, 16265  
status and progress under act, report, 7682  
forest industries in Appalachia counties of Tennessee, 16666  
hardwoods—  
epicormic branching on 8 species, 8078  
for pallets, laboratory evaluation, 16661  
Kentucky and Ohio hardwood lumber production, costs and returns, 4850  
mine fire control project, 6691  
oilfields, densities and porosities of core samples from wells, 11353  
planning and zoning suggestions, 7884  
southern, regeneration in oak stands, 12578  
sulfide deposits, massive, 15310  
two supply cooperatives serving low-income farmers, analysis in Appalachia, 2231  
underemployment concept, way to measure need for economic development, 10922  
VISTA service Appalachia, 6168  
woods, suitability for salutary tissue and taweling, 8100

# INDEX 1967

- Appalachian Regional Commission :  
 annual report, 7372  
 appropriations, 1968, hearings, 9145  
 Federal cochairman, nomination of Joe W. Fleming II, hearing, 6125
- Apparatus tests, performance tests for operator-skills research, 1821
- Apparel, *see* Clothing.
- Appeals:  
 appellate review of sentences, provide, report, 12394  
 contract appeals, decisions, 3427  
 Indian appeals, decisions, 3428  
 land appeals, decisions, 3429  
 local union election, analysis, 6592  
 military claims determinations, clarify procedure, amend U.S. Code, report, 12279  
 permit appeal by U.S. from orders for return of seized property and to suppress evidence, report, 14990  
 selective service classifications appeals, 15728, 17193
- Appellate proceedings, *see* Appeals.
- Apple cider, *see* Cider.
- Apples:  
 bitter rot, general information, 17320  
 commercial, production by varieties, 1966 with comparisons, 2937  
 grading and sizing with brushes, 7246  
 McIntosh, new overwrapped trays, 1674  
 orchards, young, establishing and managing, 5625  
 packing costs in Michigan, analysis, 5653  
 production, use, value, 1965-66, by States, 14696
- Applicators for precision placement of chemicals in soil, 1673
- Applied mathematics, computers, and information models, USSR, 16735
- Applied mathematics series, 14513
- Applied Technology Institute, *see* Institute for Applied Technology.
- Appln, Paul L., Gulf series in subsurface in northern Florida and southern Georgia, 16692
- Appointments, *see* names of persons appointed to office—also names of departments, etc.
- Appomattox Court House National Historical Park, general information, 2733
- Appomattox Manor, acquisition by Petersburg National Battlefield, etc., report, 14962
- Apprentices:  
 apprenticeship program, setting up, 94  
 cash register repairmen, apprenticeship policy, 7373  
 examination, sample questions, 12112  
 mechanical trades, examination announcement, amdt., 203  
 Negroes in apprenticeship, 16793
- Apprenticeship and Training Bureau, publications, list, 13277
- Apprenticeships, *see* Apprentices.
- Approach, naval aviation safety review, 3036
- Approach lights, *see* Lights and lighting.
- Appropriations:  
 additional, 1967 and 1968, proposal, 10694  
 amendments, 1968, 10512, 12320  
 general Government matters, 1967, continue—  
   law, 362  
   report, 641  
 general Government matters, 1968, continue—  
   hearings, 17635  
   laws, 13525, 16131, 17547  
   reports, 12276, 13808, 14988, 16267, 16282, 16285  
 legislative, 1950, amend act—  
   law, 17540  
   reports, 14968, 15138
- Appropriations—Continued  
 legislative, 1967, supplemental, hearings, 2040  
 legislative, 1968—  
   amendments, 13723  
   hearings, 10633, 12398  
   law, 13537  
   reports, 10617, 13672, 13813  
 supplemental, new obligational authority, 1966 and 1967, proposal, 7609  
 supplemental, 1967—  
   hearings, 9146, 9303  
   laws, 411, 10490  
   proposal, 19668  
   reports, 10566, 10770, 13629  
*see also* subjects, or names of departments, etc., for which appropriations are made.
- Appropriations Committee, House:  
 hearings, 2040, 6026-27, 7733-36, 9141-46, 10620-634, 12286-287, 15014-17, 16304-305  
 reports, 641, 7704, 9097, 9120, 10560, 10566, 10600, 10612, 10616-617, 10620, 12276, 13633, 13666, 13678, 14978, 14988, 16267, 16282
- Appropriations Committee, Senate:  
 committee prints, 10804-805  
 hearings, 939, 7794, 7797, 7799, 9301-3, 10803, 10806, 12397-398, 13839-842, 15147, 16388-390, 16392-393, 16395, 17635-637  
 100th anniversary, compilation, 9183  
 reports, 9268, 10766, 10770, 10791, 13808, 13813, 13815, 15082, 15090, 15131, 16372-373
- Approximations, multivariable function, orthonormalization procedure, 6749
- Apricots:  
 dried, U.S. standards for grades, 13894  
 production, use, value, 1965-66, by States, 14695
- APRO, *See* Army Personnel Research Office.
- Aptitude tests:  
 Air Force Academy cadets, class of 1967, 1st year achievement, 17343  
 Air Force officer qualifying test scores, relationship to success in undergraduate pilot and navigator training, 13267  
 differential tests, comparison with airman qualifying examination, errata, 4171
- Aqualung:  
 scuba diving—  
   and underwater sports, USSR study, 6490  
   biologic and physical aspects, 11953  
   USSR, 15420  
 scuba masks, effect on underwater visual resolution, 14317
- Aquatic sciences, *see* Science.
- Aquatic sports, notes on aquatics, USSR study, 16760
- Aqueous solutions, ion exchange determines iodine-131 concentration in aqueous samples, 12833
- Aquifers:  
 basalt, artificial recharge through well tapping at The Dalles, Oreg., 16700  
 mechanics of aquifer systems (series), 12607  
 properties and well design for artificial-recharge site, 1128  
 Punjab region of West Pakistan, tests, analysis, 11187
- Arab countries:  
 Arab performance put to test, Lebanese article, 15430  
 Communist party representatives, conference resolutions, 12718  
 oil-producing, USSR report, 11254  
 United States policy in Near East crisis, 14650



Arabian Gulf States, see Bahrain—Qatar—Trucial States.  
 Arabian Peninsula, geology, 1124, 6405-7, 8173  
 Arabs, nationalism, Soviet view, 9629  
 Aradidae in National Museum (Hemiptera: Heteroptera), notes, 5307  
 Aransas National Wildlife Refuge:  
   birds, list, 4804  
   mammals, list, 11087  
   whooping cranes, general information, 8043  
 Arapaho Indians:  
   convey certain federally owned lands to, report, 13835  
   judgment funds, disposition, reports, 15007, 15118  
 Arberg, Harold W., sonata for 2 clarinets, student composers take over, 7911  
 Arbitration, see Industrial arbitration.  
 Arboleya, Carlos J., relief, 9198  
 Arc (electric), see Electric arc.  
 Arc heating, megawatt dc, of nitrogen, experimental investigation, 5205  
 Arc tunnels, see Wind tunnels.  
 Arc welders, see Welders.  
 Arc welding, see Welding.  
 Arceuthobium, see Mistletoe.  
 Archeology:  
   ethnoarcheology of Crow Village, Alaska—departmental edition, 8872  
   document edition, 9048  
   inter-agency archeological salvage program, papers—  
     departmental edition, 11973  
     document edition, 12193  
   Pony Creek, 15734  
   publications in salvage archeology, 5499, 10081, 15734  
 Archer, Wayne B., group job descriptions computation from occupational survey data, 11951  
 Arches National Monument, general information, 8551  
 Archiannelida, marine, from Dominica, 11612  
 Architect of Capitol:  
   appropriations, 1968, legislative—  
     hearings, 10633, 12398  
     law, 13537  
     reports, 10617, 13672, 13813  
   employees, training opportunities, report, 16232  
   management of and control over expendable supplies and materials, GAO review, 14161, 15057  
 Rayburn House Office Building, construction and related costs, GAO examination, 8131, 9182  
   reports, semiannual, 6059, 15061  
 Architects:  
   architect-engineer fees, statutory and regulatory Government-wide administration requirements, GAO review, 16668  
   construction services, contracting for AEC work, guide, 13350  
   demonstration city program and architect (address), 2735  
   examination announcement, amendment, 17453  
   nuclear defense design, courses, announcement, 16053  
 Architecture:  
   architecture-engineer fees, Government-wide administration of certain statutory and regulatory requirements, GAO review, 9548  
   college design awards, new shapes for ivory towers, 7904  
   concrete structural design for buildings. Army technical manual, 7391  
   courier station design, technical manual, 13301  
   definitive designs for naval shore facilities, 15619-620  
   designing fallout shelter in new buildings, manual for architects, 7530

Architecture—Continued  
   excellence in design, new potential on American campus, 1966 awards program, 7894  
   Georgetown commercial architecture, Wisconsin Ave., northwest Washington, D.C., historic American buildings survey, selections, 11616  
   honor awards for design excellence, Department of Housing and Urban Development Department, 16710  
   Navy design manual, changes, 2764  
   PACAF basic bibliography, 13266  
   science facilities, planning, design, and construction, literature, list, 14561  
   shelter through architectural design, shielding requirements influence on form, 8581  
 Archives, National Oceanographic Data Center, data inventory, Arctic and Antarctic supplement, 6996  
 Arctic Coast, coast pilot, Alaska, Cape Spencer to Beaufort Sea, supplement, 5945  
 Arctic Ocean, lights and fog signals, list, 5335, 8572  
 Arctic regions:  
   emergency construction, surface drainage design for airfields and heliports, 7395  
   environmental health series, 14623  
   high polar ice sheets, measurement of natural particulate fallout, Antarctic and Greenland cores, 17374  
   inventory of archived data, 6996  
   polar cap ionosphere, cooperative study, agreement with Canada, 17248  
   polar region studies in geomagnetism and aeronomy, USSR, 8277  
   radionactive fallout, 14794  
   temperature inversions survey, 4200  
 Ardmore, Okla., aircraft accident, 10404  
 Are we running out of water?, 6396  
 Area handbooks:  
   Dominican Republic, 11990  
   Ecuador, 10268  
   Kenya, 15941  
   Saudi Arabia, 5733  
   South Vietnam, 13297  
   Thailand, 5734  
 Area measurement reports, 149-150, 1831, 4265-69, 5809-15, 7456-58, 8928-29, 10335-338, 12034-36, 13357-360, 14816, 17421-423  
 Area redevelopment, see Redevelopment (city planning, etc.)—Rural redevelopment—Unemployed.  
 Area trends in employment and unemployment (periodical), 3039  
 Area wage surveys, see Wages.  
 Arenac County, Mich., soil survey report, 14654  
 Ares y Fernandez de Bosch, Myriam, see Bosch, Myriam.  
 Aresco, S. J., analyses of tippie and delivered samples of coal, 8375  
 Argentina, Newfoundland, see Naval Operating Base, Newfoundland.  
 Argentiero, Peter D., nonparametric tests for randomness in sequences, 5248  
 Argentina:  
   amateur alien radio operators, authorization to operate, agreement, 13151  
   atomic energy, cooperation for civil uses, application of safeguards, agreement, 2893  
   background notes, 13130  
   capsule facts for Armed Forces, 15016  
   declaration on provisional accession to GATT, 11862  
   economy, basic data, 4433  
   livestock and meat industry, 11099  
   mineral industry, minerals yearbook chapter, 15466  
   radio communications between amateur stations on behalf of 3d parties, agreement, 13152  
   trade agreement, 2918

# INDEX 1967

- Argere, Athanasia, relief, 9234, 12232, 13507
- Argon:  
gas, low density, electron flow including space-charge and elastic collisions, 14480  
isotopic abundance in natural gases, rel. to helium genesis, 9785  
volume ion production costs interuous plasmas, detailed results, 15577
- Arguello, Point, budget of littoral sands in vicinity, 7924
- Argyris, Chris, some causes of organizational ineffectiveness within Department of State, 5525
- Arias, Marla del C.T. de, relief, 16222, 17523
- Ariel, *see* Satellites.
- Arithmetic:  
extended precision, subroutine allows easy computation, 2639  
one class of self-teaching recognition algorithm, USSR study, 12675  
ranger 'rithmetic for—  
1st and 2d grade teachers, 2293  
3d grade teachers, 2294  
4th grade teachers, 2295  
5th grade teachers, 4825  
6th grade teachers, 11108  
7th grade teachers, 2296
- Arizona:  
California boundary compact, consent of Congress, report, 4499  
census of agriculture, 1964, State and county statistics, 13409  
census of mineral industries, 1963, area statistics, 5822  
chaparral communities, moisture-retention capacity of litter, 14112  
climate, 4746  
climatological data, 3096  
county business patterns, 10346  
electric rate book, 1050  
forest resources, 2336  
highway safety study, Operation 66, joint engineering-enforcement project report, 1594  
home fruit garden, 5635  
land conveyance, hearings, 16303  
mineral industry, minerals yearbook chapter, 6643  
mineral resources of—  
Mount Baldy primitive area, 8156  
Pine Mountain primitive area, 11166  
postal map, 15650  
precipitation data, hourly, 3401  
radioactivity, airborne, 1953-56, maps, 1801  
southern, younger Precambrian geology, 16696  
vegetative key to some common range grasses, 11141  
water supply outlook and snow surveys, 4044
- Arkansas:  
area measurement reports, 149, 4265  
census of agriculture, 1964, State and county statistics, 13408  
census of mineral industries, 1963, area statistics, 4281  
climatological data, 3096  
county business patterns, 169, 12044  
electric rate books, 1051, 16582  
employment, education, and voting, State advisory committee report to Civil Rights Commission, 13434  
mineral industry, minerals yearbook chapter, 6644  
Ozarks, Appalachian loblolly growa well, 2320  
postal map, 15651  
precipitation data, hourly, 3401  
processing of high-iron bauxite ores, 9766  
radioactivity, airborne, 1952-55, maps, 1802  
Titan II missile site disaster actuarial analysis of survivor benefits payable, 7115
- Arkansas River and Valley:  
basin, water quality control, engineer report—  
departmental editions, 2196-2200  
document editions, 2070-74  
lock and dam no. 4, navigation conditions, hydraulic model investigation, 2221  
navigation entrance, hydraulic model investigation, 17737  
project, low-lift locks, filling and emptying systems, hydraulic model investigation, 4743  
water supply outlook and snow surveys, 4045
- Armaments, *see* Munitions.
- Armatures, solenoid, holds residual magnetism in desired position, 8464
- Armed Forces:  
active-duty service, naturalization of those serving, hearings, 7750  
administration of military justice, hearings, 958  
America's servicemen and veterans, legislative proposals, message from the President, 5993  
appropriations, 1967—  
military procurement, report, 2014  
supplemental, military procurement and construction, etc.—  
hearings, 7799  
law, 9035  
reports, 6087, 7665, 7667, 7673  
appropriations, 1968, military procurement—  
hearings, 7797, 9149  
law, 12164  
reports, 7786, 10570, 10575, 10611
- Armed Forces Day, 1967, report, 9364
- automation of troop control, methodological problems, USSR study, 8273
- AWOL and consequences, 5736
- capsule facts for Armed Forces (series), 8873-74, 10247-250, 11974-980, 13279-285, 15905-923 17367-370.
- code of conduct, Army pamphlet, 1764
- commissioned officers in combat zones, increase combat pay exclusion, law, 452
- courts martial manual, 1951, addendum, changes, 973, 9361
- defense procurement circular, 3194
- defense supply procurement regulation, revision, 3196
- dependency and indemnity compensation for survivors, amend U.S. Code—  
law, 367  
report, 901
- dependents—  
Defense Department education overseas, report, 16322  
educational scholarships, loans and financial aids, general information, 1
- Exemplary Rehabilitation Certificates, award to individuals discharged under conditions other than honorable, etc., authorize, amend U.S. Code—  
law, 404  
reports, 626, 908
- facilities and areas and status of U.S. Forces in Korea, agreement, 8726
- Federal voting assistance act of 1955, amend, report, 13817
- fighting man's code, 13286
- former members, disability severance pay, recoupment requirements, modify, report, 14940
- health benefits program for—  
active members and dependents, report, 14941  
retired members and dependents—  
law, 365  
report, 664
- interest lost on deposit accounts of enlisted members, adjust—  
law, 451  
reports, 686, 932



Armed Forces—Continued

Italian, World War II records, guide, 17023  
 legislation affecting, 89th Cong., 2d sess.,  
 hearings, title page, contents, and in-  
 dex, 2041  
 life insurance—  
   government program, annual report,  
   8779  
   servicemen's group, annual report, 8778  
 mailing privileges—  
   additional—  
     hearings, 10670  
     report, 10613  
   provide better overseas service, law, 438  
 medical and dental officers, provide promo-  
 tion opportunities, report, 14943  
 members—  
   dependents, dental care needs, hearings,  
   16306  
   house trailers and mobile dwellings, pro-  
   vide transportation costs, amend  
   U.S. Code, reports, 629, 657  
   retirement in highest grade satisfacto-  
   rily held, amend U.S. Code, report,  
   14939  
   voluntarily extending tour of duty in  
   hostile fire area, authorize special  
   30-day period of leave—  
     hearing, 716  
     law, 448  
 military symbols, field manual, 10261  
 obstructing, in time of undeclared war,  
 make punishable, reports, 2017, 2019,  
 10618, 12263  
 personnel, accommodations on commercial  
 air carriers while on authorized leave,  
 subcommittee report, 4525  
 postal services, Vietnam and Thailand, on-  
 site inspection, report, 4505  
 procurement regulations, 3040  
   supplements, 6139, 7846, 16456  
 qualification test provides clue to how  
 good our schools are, 1005  
 reemployment rights of Federal employees  
 who perform duty, 5936  
 retired serviceman's family protection  
 plan, 7375  
 retirees, law on employment as civilians  
 with Air Force, 5697  
 savings deposit program, allotments for  
 missing persons, etc., reports, 16266,  
 17626  
 servicemen, 5-cent commemorative postage  
 stamp, 1st day ceremony (address),  
 1556  
 supplies and services provided by DSA,  
 7858  
 teaching, Protestant religious education  
 program, 17706  
 theory of decisions and control of troops,  
 USSR study, 15366  
 U.S. troop deployment in Europe, to ex-  
 press sense of Senate, hearings, 13863  
 unified action, principles, doctrines, etc.,  
 covering, 16730  
 uniformed services—  
   health benefits program, 13287  
   joint travel regulations, 3455  
 VA-Armed Forces Pulmonary Diseases Re-  
 search Conference, transactions, 13172  
 women officers, remove promotion restric-  
 tions, etc., amend U.S. Code—  
   hearing, 9148  
   report, 10565  
 see also Pay, allowances, etc.—Reserve  
 components of Armed Forces.  
 Armed Forces Day, 1967, Armed Forces re-  
 port, 9364  
 Armed Forces Industrial College, see In-  
 dustrial College of Armed Forces.  
 Armed Forces Information and Education :  
   DOD pamphlets, 7374-75, 8873-74, 10247-  
   250, 11974-980, 13279-287, 15905-923,  
   17367-370  
   voting information bulletin, 4040

Armed Forces Institute :

bulletins, 6156, 16475, 17707  
 manual, 7845  
 study guides, 974, 9362-63, 12438, 15180,  
 17687  
   supply announcement, 16476  
 Armed Forces Institute of Pathology, leaf-  
 lets of Medical Museum, 2153, 12442  
 Armed Forces Voters Day, designate, report,  
 13817  
 Armed services, see Armed Forces.  
 Armed Services Committee, House :  
   activities, report, 724  
   calendar, 3471  
   Civilian Advisory Panel on Military Man-  
   power Procurement, report, 6028  
   committee prints, 6028, 6032, 7739, 12288,  
   13699, 16313  
   hearings, 713, 715-723, 2042-44, 4524,  
   4526, 6029-31, 7737-38, 9147-49,  
   10636-639, 12289, 13695-698, 16306-  
   312, 17590, 17592-593  
   title page, contents, and index, 2041  
   Investigations and studies, procurement,  
   etc., by Defense Dept.—  
     authorization, report, 6009  
     expenses, reports, 7677, 14979  
   laws, 80th Congress, 1st and 2d sessions,  
   4523  
   organization meeting, 90th Congress, 6029  
   reports, 626, 629, 682-687, 689, 692, 2016,  
   2025, 6012, 7665, 9117, 10555, 10564-  
   565, 10569-570, 10608, 13684, 14936-  
   944, 16229, 16262, 16266, 16268-271,  
   16281  
   reports, index, 4522  
   statement of Secretary Robert S. Mc-  
   Namara on 1968-72 defense program  
   and 1968 defense budget, 4527  
   subcommittee reports, 714, 4525, 10635,  
   13698, 17591  
 Armed Services Committee, Senate :  
   calendar, 3490  
   committee prints, 2105-7, 4629-30, 10809-  
   815  
   hearings, 940, 942, 944, 954, 958, 2108,  
   7796-97, 7799, 9304-6, 10807-808,  
   10816, 13843, 13863, 15148-149, 16394-  
   395, 17637, 17639-640  
   Investigations and studies, authorization,  
   report, 4606  
   reports, 907-908, 919-922, 926, 932-936,  
   2082, 2101, 4556, 6087, 7786, 9277,  
   10744, 10747, 16371, 17625-626  
 Armed services papers, 714-724, 2042-44,  
 4524-26, 6029-31, 7737-38, 9147-49,  
 10635-639, 13695-698, 16306-312,  
 17590-593  
   title page, contents, and index, 2041  
 Armenian Soviet Socialist Republics, Acad-  
 emy of Sciences, annual meeting eval-  
 uates recent work, 9636  
 Armistic line, Israel-Lebanon, 11829  
 Armor :  
   material, personal, ballistic test facility,  
   military standard, 9375  
   operations, Army technical manual, 101  
 Armour and Co., wage chronology, 1359  
 Armrests, automotive vehicles, Federal stand-  
 ard, 6328  
 ARMS, see Aerial radiological measuring  
 survey.  
 Arms (firearms), see Firearms—Munitions.  
 Arms control, see Disarmament.  
 Arms Control and Disarmament Agency :  
   annual report, 1966—  
     departmental edition, 13288  
     document edition, 13549  
   appropriations, 1967, law, 501  
   appropriations, 1968—  
     hearings, 10632, 16390  
     reports, 10616, 16372  
   design study, 15924  
   research and studies, report, 4191  
   telephone directory, 15764

# INDEX 1967

- Armstrong, George T., calculation of heating value of sample of high purity methane for use as reference material, 2743
- Army:
- acquisition and installation of computers by Army, Pacific, GAO review, 9552
  - aircraft—
    - fixed wing cargo, restraint design criteria, analysis, 10289
    - maintenance quality control and technical inspection guide, technical manual, 8893
  - airfield-heliport design, general provisions and criteria, technical manual, change, 10274
  - armies and social progress, USSR study, 1327
  - Army technical library improvement studies, report 2, 10265
  - audio-visual support center operations, field manual, 4206
  - aviation—
    - air transport operations, 11986
    - digest, 3996
    - divisional battalion and group, field manual, 10259
    - maintenance engineering manuals, 4218, 7400, 8892, 10282
    - meteorology applicable, technical manual, change, 7390
    - utilization, field manuals, 4203, 15935
  - CH-34 helicopter, DS, GS, and depot maintenance manual, 7401
  - Chief of Staff, appointment, etc.—
    - law, 12164
    - report, 10611
  - civilian aides to Secretary of Army, 13th national conference, summary, 15944
  - crafts program, 4th dimension is you, career opportunity, 7382
  - desserts recipes, technical manual, 8886
  - digest, 3042
  - drill and ceremonies, field manual, 5728
  - enlisted members, computing retired pay, report, 16270
  - enlisted personnel, promotion system, Army pamphlet, 10266
  - facilities, basic criteria and construction standards, technical manual, 4213, 10270
  - field press censorship, manual, 13293
  - field radio relay techniques, manual, 5729
  - food adviser, technical manual, 14802
  - food, preparation and serving in garrison mess, technical manual, 7397
  - installations and major activities in continental U.S., list, 14795
  - Judge Advocate legal service, pamphlets, 3461
  - logistics 1775-1953, sinews of war, 1397
  - manpower—
    - monograms for policy evaluation, 4227
    - rotation policy models, 7404
  - materials, transfers of excess to Marine Corps, expedited procedure, GAO review, 14163
  - mathematicians, 12th conference transactions, 8876
  - military personnel—
    - dependents traveling to oversea areas, information, pamphlet, 1765
  - ordered to—
    - Alaska, helpful hints, 8882
    - Canal Zone, Southern Command, helpful hints, 14797
    - Germany, helpful hints, 13299
    - Japan, helpful hints, 7387
    - Korea, helpful hints, pamphlet, 14798
    - Puerto Rico, Southern Command, helpful hints, 17384
    - Ryukyu Islands, helpful hints, 7388
    - Southern European Task Force (Italy), helpful hints, 11991
    - policies, digest, pamphlet, 17382
  - personnel, unit officer's guide, Army pamphlets, 10269, 15942
- Army—Continued
- procurement and production, manufacturing methods and technology, 5-year program, 15943
  - procurement legal service, pamphlets, 5737, 7389, 8883-84, 13300, 14799-800
  - procurement of light observation helicopters—
    - review, hearings, 12289
    - subcommittee report, 13699
  - procurement procedure, changes, 1753, 8875, 10254
  - publications, price list, 15669
  - recruiting and career counseling journal, 3812
  - register, Jan. 1, 1967—
    - departmental editions, 8896A, 10284-285
    - document editions, 9052, 10502-503
  - research and development—
    - magazine, 3043
    - series, 4219A
  - resources, emergency employment, natural disaster activities, 17735
  - rifle procurement and distribution program—
    - hearing, 10807
    - report, 10810
  - scientific & technical information program, 13306
  - signal construction battalion, field manual, 4205
  - signal large headquarters, operation company, field manual, 15937
  - sites, engineering weather data for heating and air conditioning design, etc., 11947
  - squad leaders guide, pamphlet, 11988
  - this is the Army, general information, career opportunities, etc., 11989
  - troop movement guide
    - Army technical manual, 17387
  - troop topics, 4212, 14796, 15929, 17381
  - United States Army in—
    - Europe, availability of selected stocks for requirements of other commands, Army Dept., GAO review, 8140
    - South Vietnam, status report, 10814
    - World War II, 5096
  - Army Audit Agency, bulletin, 3982
  - Army Aviation Materiel Laboratories, technical reports, 116-117, 1773, 4220-23, 5747-49, 7408-11, 8897-98, 10286-293, 1196-998, 13307-310, 15955, 17388
  - Army Department:
    - acquisition and installation of computers by Army, Pacific, GAO review, 9552
    - annual report, 2149
    - appropriations, 1967, public works law, 403
    - appropriations, 1968—
      - military construction, hearings, 16305
      - public works—
        - hearings, 10634, 16393
        - report, 13678
    - Army regulations, 4194, 14790, 17373
    - Army Tank-Automotive Command, Warren, Mich., actions to improve financial management system, GAO report, 17810
    - Assistant Secretary, nomination of Eugene M. Becker, hearing, 15148
    - availability of selected stocks of United States Army in Europe, for requirements of other commands, GAO review, 8140
    - chief and executives, organization chart, 3393
    - civilian career opportunities for college graduates, 8877
    - civilian personnel pamphlets, 5723-24
    - Enlisted Evaluation System, 17381
    - field manuals, 100-102, 1757-62, 4203-9, 5726-30, 8881, 10259-263, 11985-986, 13293, 15935-938
    - management of aircraft repair parts reserved at depots in U.S., GAO review, 9555

- Army Department—Continued  
pamphlets, 103, 1763-65, 3461, 4211-12,  
5732-37, 7383-89, 8882-84, 10264-269,  
11987-991, 13294-300, 14795-800,  
15939-942, 17380-384  
publications, price list, 15669  
technical manuals, 105-115, 1767-72,  
4213-18, 5740-46, 7390-7402, 8885-94,  
10270-282, 11994-995, 13301-304,  
14801-803, 15945-954, 17380-387  
transportation and travel, worldwide  
cargo costs guide, pamphlet, 17380  
water resource projects under jurisdiction,  
change in name—  
law, 12181  
reports, 9297, 13630  
Army Engineer Division, North Pacific, tech-  
nical reports, 2201, 4729, 10949  
Army Engineer Research and Development  
Laboratories, news releases, 3718  
Army historical series, 1397  
Army Human Factors Research & Develop-  
ment Conference, 1960, proceedings, 4219  
Army installations, *see* Installations (mili-  
tary).  
Army Map Service, briefing map of South-  
east Asia, print as House document, re-  
port, 16228  
Army Materiel Command:  
AMC pamphlets, 95, 1749-51, 3843, 4192,  
5721, 7376, 10251-252, 11981, 13289,  
14788, 15927-928, 17372  
contractors guide, 8880  
employment bulletin, 13305  
manufacturing methods and technology,  
5-year program, 15943  
military publications and blank forms, in-  
dex, 10251  
program evaluation and review technique  
(PERT), Army programs, 1752  
publications and blank forms, indexes, 95,  
5721, 13289, 15927  
regulations, AMCR (series), 1752, 14789,  
15929  
reports, register of approved recurring re-  
ports, 1749, 7376, 11981, 14788, 17372  
safety manuals, 14789, 15929  
Army Medical Research and Nutrition Lab-  
oratory:  
Fitzsimons General Hospital, reports,  
120-122, 5753-54, 7412-15, 10295,  
14806-807  
reports and reprints, bibliography, 7416  
Army Medical Service:  
annual report, 1966 fiscal year, 15956  
internship program, benefits, etc., 10294  
physical therapists, educational oppor-  
tunities, 4230  
Army National Guard, *see* National Guard.  
Army Personnel Research Office:  
research publications, 1966, abstracts, 7405  
USAPRO technical research notes, 118,  
4224-26, 5750-51, 7403-5, 10282A-283  
USAPRO technical research reports, 119,  
4227-28, 5752, 7406  
Army Research Office (Durham):  
reports, 96, 8876  
research in progress, 11993  
Army Reserve magazine, 3044  
Army Security Agency, command safety pro-  
gram manual, 15934  
Army Strategic Communications Command:  
new headquarters at Fort Huachuca, Ariz.,  
6155  
technical manual, 7377  
Army Transportation Engineering Agency,  
USATEA reports, 14805  
Army Transportation Research Command,  
technical report, 8895  
Armyworms, fall, mass rearing in laboratory,  
8805  
Arnett, Alvin J., proceedings of Merchant  
Marine Council, 3773, 12125  
Arnhoff, Franklyn N., current status of  
mental health personnel supported under  
National Institute of Mental Health train-  
ing grants, 2839  
Arnold, Charles J., relief, 7637  
Arnold, Dean E., marking fish with dyes and  
other chemicals, 4812  
Arnold, Dorothy E., measurement of serum  
ionic calcium using specific ion electrode,  
13271  
Arnold, J., mathematical computer programs,  
5196  
ARO, *see* Aerospace Research Office.  
ARO-D reports, 96, 8876  
Aromanto, Tony, Atlantian, 3049  
Aromatic compounds, polyaromatics con-  
verted into structural material by iso-  
static compression process, 12898  
*see also* Hydrocarbons.  
Aroostook County, Maine, Island Falls quad-  
rangle, bedrock, geological-geophysical  
investigations, 6401  
Arousal as factor in reminiscence, 9981  
Arps, Dale J., controls analysis of nuclear  
rocket engine at power range operating  
conditions, 11525  
Arresters, *see* Lightning arresters.  
Arrests, Immigration and Naturalization  
Service officers authority to make arrests,  
15318  
ARS series, 2-9, 1672-74, 4083-86, 5616,  
7241-52, 8803-8, 10147-156, 11915-922,  
13196-203, 14733, 15824-827, 17299-300  
Arsenic stereochemistry of organic com-  
pounds, USSR study, 1209  
Art:  
battle art, AEF, 1918, exhibition, 8680  
National Foundation on the Arts and the  
Humanities, purpose and activities as it  
pertains to the arts, 6927  
NAVNEWS 1967 portfolio, 7025  
addendum, 17098  
Stanton Macdonald-Wright, retrospective  
exhibition, 11595  
State arts activities, summary, 6930  
works and reproductions, catalog of copy-  
right entries, 968, 2141, 6137, 17682  
*see also* Paintings.  
Art and Antiquities of Capitol Commission,  
establish, report, 9274  
Arteries:  
anatomy and DC characteristics of system,  
with introduction to AC characteristics,  
11405  
carotid and femoral, blood flow in hyper-  
thermic cats, 5710  
Artesian water in Tertiary limestone in  
Southeastern States, 6399  
Arthritis, arthritis and rheumatic diseases  
abstracts, 3045  
*see also* Osteoarthritis—Rheumatoid ar-  
thritis.  
Arthropod borne diseases, reported incidence  
of arthropod borne encephalitis of equine  
in United States, 1965 calendar year, 7255  
Arthur, H. B., United States food and fiber  
system in changing world environment,  
18144  
Articles of Confederation, text, 10691  
Artifacts, *see* Paleontology.  
Artificial blood circulation, *see* Blood.  
Artificial intelligence, techniques, applica-  
tions to spacecraft control problem, 12854  
Artificial kidneys:  
bibliography (periodical), 11718  
what it is, how it works, 18152  
Artificial recharge of ground water (series),  
16700  
Artificial satellites, *see* Satellites.  
Artists, Isleta paintings, artist in pueblo  
society, letters, etc., 14547

# INDEX 1967

Artists' materials, national defense education act, loans to private nonprofit elementary and secondary schools for equipment and materials, 1007

Arts, Advisory Committee on, *see* Advisory Committee on the Arts.

Arts and crafts:

- Army crafts program, 4th dimension is you, career opportunity, 7382
- Indian and Eskimo sources, list—
  - individuals, 12640
  - organizations, 12639
- opportunities for girls (address), 8796
- promote progress of useful arts, report of President's Commission on Patent System, 2796, 6053
- print as Senate document, report, 4598 *see also* Handicraft.

Arts and the Humanities, National Foundation on, *see* National Foundation on the Arts and the Humanities.

Aryl compounds, arylsiloxane copolymers, 9843

Asaad, Blanche L., relief, 576

Asaad, Ezzat N., relief, 575

Asbell, Bernard:

- medical training costs too much, 10934
- new directions in vocational education, case studies in change, 17719

Asbestos:

- chrysotile, lizardite, and antigorite, solution studies, 8160
- colloidal fibrils as reinforcements for polymeric structures, 16914
- phenolic impregnated, debulking and curing, improved method, 1457

Asci, Antonina R., relief, 10547, 13518, 13754

Ascorbic acid, *see* Vitamins.

ASCS, *see* Agricultural Stabilization and Conservation Service.

ASCS background information BI series, 19, 5621, 8816-17, 13207

ASECNA, *see* Safety of Air Navigation in Africa and Madagascar Agency.

Ash (tree):

- dieback, detection and classification on large-scale color aerial photographs, 8116
- seed bed density affects size of 3-0 green ash nursery stock, 14095

Ash trays, *see* Trays.

Ashby, Charlotte M., cartographic records of Forest Service, 14510

Ashe, Hubert, relief, 13622

Asher, Janice M., use of computers in analysis of experimental data and control of nuclear facilities, 14808

Ashes:

- coal ash, spectrochemical analysis, 14342
- fly ash utilization, symposium, proceedings, 14329

Ashizawa, Roy Y., mineral industry of Hawaii, 2553

Ashley, Burton E.:

- mineral industry—
  - British Honduras, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama, 14331
  - Ecuador, French Guiana, Paraguay, and Uruguay, 11361
  - Islands of Caribbean, 14332
  - Mexico, 12804

Ashley, Victor L., relief, 13591

Ashville, Ala., bauxite deposits, 2356

Asia:

- arms sales to South Asian countries, hearings, 15155
- Asia, Pacific and United States, hearing, 6099
- central and southeast, study mission, report, 9181

Asia—Continued

- central, deserts—
  - description, 16777
  - formation, and nature of Sinkiang, study, 6585
  - geographical study, 2434
- contributions to hydrology of Asia and Oceania (series), 11187
- East Asian and Pacific series, 7143, 8713-16, 11822-824, 13137-138, 146752-673, 17218-220, 18228-229
- east, functional bibliography, 5526
- health information for travel, 13078
- maps of continent, including indexes, etc., 16153
- print as House document, reports, 16228, 16359
- market indicators, 9013
- Pacific Coast, tidal current tables, 16087
- peace in Asia, importance, message from the President, 16163
- promise of new Asia, U.S. policy in Far East as stated by President Johnson, 2880
- rural development, hearings, 7745, 13705
- south—
  - functional bibliography, 11832
  - market profiles, 13456
  - regional mineral industry review, minerals yearbook chapter, 8373
- south and east, translations, 3963
- southeast—
  - background information, revision, 13860
  - Government-owned vessels supporting military activities, potential savings in financing, Maritime Admin., GAO report, 14157
  - maps, including indexes, etc., 16153
  - print as House document, reports, 16228, 16359
  - military construction appropriations, 1968, hearings, 16305
  - military construction authorization, 1967, supplemental hearings, 7799
  - military construction authorization, 1968—
    - hearings, 13695, 16395
    - law, 17555
    - reports, 13684, 13688, 16284, 16371
  - military operations, supplemental appropriations, 1967—
    - hearings, 6031
    - proposal, 4492
  - neutralization, problems and prospects, study, 2116
  - resolution to promote maintenance of international peace and security, hearing, 954
  - selected functional and country bibliography, 13141
  - U.S. Air Force tactical air operations, report, 10813
  - U.S. Navy and Marine Corps status, report, 10815
  - visit of special subcommittees, reports, 714, 10635
- United States trade, Communist areas, 16108
- weather records, 9435
- west, agricultural situation—
  - midyear reviews, 991, 16494
  - 1966 review and 1967 outlook, 10924

Asian Development Bank:

- appropriations, 1968, hearings, 15014
- establishing agreement, 5539
- inaugural meeting (statement), 2957
- United States contribution, authorize—
  - hearings, 17650
  - message from the President, 16163

Asimov, Isaac, critique on life in 1890, article from Literaturnaya gazeta, 12729

Aspect ratio, *see* Wings (aircraft).

**Aspen:**

influence of growth media, temperatures, and light intensities on root and top growth, 14091

quaking, veneer yields from Lake States, 1095

site index table in southern and central Rocky Mountains, 2310

wood characteristics, properties, and uses, review of recent literature, 14134

Asphalt, winter construction practices, earthwork, survey, 98

*see also* Roofing.

Aspirators, use to increase relief valve poppet stroke, 12890

ASPS series, 6139, 7847, 16456

Assateague Island National Seashore, general information, 15608

**Assaying:**

assigning area of influence for assay obtained in mine sampling, 12815

correlation between assay values and unequal sample internal values, investigation, 2571

fitting surfaces to assay and other three-dimensional data by quadratic-regression analysis, computer method, 2580

linear discriminant analysis of multivariate assay and other mineral data, 6680

mine and mineral-deposit sample and assay data analyzing, statistical techniques, 14322

*see also* Radioassaying.

Assemblies, *see* Weapons.

Assessments, *see* Taxation.

Assets and liabilities, *see* Banks and banking—Federal reserve member banks—Sales.

Assets of poor and near poor, 7130

Assistance, *see* Public assistance—Social work and problems.

Associate training programs in medical and biological sciences at National Institutes of Health, 5420

Association and Industry Management Service for Small Business, general information, 15729

Association of ideas, paired-associate learning experiments, confidence in recall, 13262

Astacidae, *see* Cambarus.

ASTM, *see* American Society for Testing and Materials.

Astronomy, problems, 14501

**Astronautics:**

chronology on science, technology, and policy, 1441

Earth-Mars-Earth flight, minimum time with unregulated low-thrust engine, USSR study, 17881

effects of space-flight factors on—functions of central nervous system, 12973

some bodily functions, USSR study, 2439

manned space flight—biological problems, USSR study, 6485

biomagnetic considerations, 16911

cardiovascular and respiratory reactions of crewmen during Voskhod-2 orbital flight, 6555

dental kit encasement for use on space missions, 17353

emergencies and space flight safety, survey, 9171

emotional state of man, analysis of intonational characteristics of speech as criterion, 6507

extended time periods, life support system, 1425

feeding systems, characteristics, concept for improvement, and public health implications, 15898

medical and biological problems, USSR study, 1315

**Astronautics—Continued**

normal human serum parameters during, 7341-42

Project Apollo, NASA facts, 8431

Project Mercury, history, 8438

Projects Mercury and Gemini, NASA facts, 17949

near-space environment, 11575

news of Soviet aviation and cosmonautics, 1311

space flight investigations—

and research, summary, 17021

opportunities for participation, 11576, 17018-19

use of Jupiter gravity turns for tailoring trajectories to Saturn with consideration of launch opportunities, 2692

space vehicle flight control systems, analysis and design, 12871-876, 14383-384, 15497-503

*see also* Bioastronautics.

**Astronauts:**

capabilities to perform extravehicular functions in weightless conditions, 15507

extravehicular protection and operations, study, 12859

incidence of ear, nose, and throat diseases in candidates, 14781

lunar explorers, self-locomotive performance based on experimental reduced-gravity studies, 11501

magnetic fields of planets, spacecraft and outer space, effects, 16911

NASA space flight team, 11423

pilot controlled docking simulation of Apollo command and service module with lunar module, 2689

piloted simulation study of manual guidance of upper stages of large launch vehicle, 9887

response speed, frequency, and flexibility, review, analysis and device demonstration, 16904

Voskhod-2 orbital flight, cardiovascular and respiratory reactions, 6555

**Astronomers:**

examination announcement, amendment, 17453

Polish Society of Amateur Astronomers, statute, 17863

Astronomical observatories, Rumanian Academy of Sciences, activities, 1290

**Astronomy:**

astronomical phenomena, 2769, 15622

astronomy in space, 8434

distance responses by Air Force Officers in mental status examinations, 4174

Soviet bloc research (periodical), 3886

X-ray, celestial sources, high angular resolution studies program, 8428

*see also* Astrometry.—Stars.

**Astrophysics:**

American meteorological Society abstracts, 3636

Byurakanskaya Astrophysical Observatory, USSR, general information, 1198

problems, USSR studies, 5276, 15582

research opportunities, 1967-68, Smithsonian Astrophysical Observatory, Cambridge, Mass., 1601

Smithsonian contributions, 2859, 8683, 18204

Asymptotic expansions, *see* Mathematics.

Asymptotic methods in theory of linear differential equations, 12976

Asymptotic solutions, *see* Mathematics.

Atchafalaya River and Valley:

engineers report—

departmental edition, 15224

document edition, 14930

Gulf outlet, navigation maps, 8383

Ateles geoffroyi, *see* Monkeys.

Athens, Greece, desalting for, preliminary study, 10314

# INDEX 1967

- Atherosclerosis, experimental, metabolism of nucleic acids, phosphoproteins, and phospholipids of liver, USSR study, 1275
- Athletic goods, *see* Sporting goods.
- Atkinson, William A., clearcut harvesting costs and production rates for young-growth mixed-conifer stands, 4841
- Atlanta, Ga.:
  - area wage survey, 14291
  - stresses in rock outcrops, 1409
- Atlantian (periodical), 3049
- Atlantic alliance:
  - concert and conciliation, next stage (address), 18232
  - current views, 10838
  - unfinished business, 6108
- Atlantic Coast:
  - coast pilots—
    - Cape Cod to Sandy Hook, 7556
    - Cape Henry to Key West, *supp.*, 5943
    - Eastport to Cape Cod, *supp.*, 5942
    - Gulf of Mexico, Puerto Rico, and Virgin Islands, 17467
    - supplement, 7553
    - Sandy Hook to Cape Henry, 4414, 7557
  - Continental Shelf and slope, geologic background, 4889
  - hurricane survey, engineer reports—
    - Beaufort Inlet to Bogue Inlet, N.C.—
      - departmental edition, 2203
      - document edition, 1936
    - Bogue Inlet to Moore Inlet, N.C.—
      - departmental edition, 2204
      - document edition, 1997
    - Cape Fear to North Carolina South Carolina State line—
      - departmental edition, 2205
      - document edition, 2005
  - light lists—
    - Little River, S.C. to Rio Grande, Tex., and Antilles, 12123
    - St. Croix River, Maine, to Little River, S.C., 14877
  - nautical chart catalog, 4415
  - North America, tidal current tables, 215, 16086
  - storm warning facilities chart—
    - Cape Hatteras, N.C. to Brunswick, Ga., 14718
    - Eastport, Maine to Montauk, N.Y., 14719
    - Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 14720
    - Montauk Point, N.Y. to Manasquan, N.J., 14721
  - transportation lines, 13984
- Atlantic community, selected bibliography, 15752
  - see also* Organization for Economic Co-operation and Development.
- Atlantic Fleet, status and combat readiness, report, 10812
- Atlantic Ocean:
  - North—
    - southwestern, collection by exploratory fishing vessels, correction, 8035
    - station Charlie, oceanographic observation, 10444
    - trawl nets, 15256
  - northwest—
    - fisheries convention of 1949, multilateral understanding, protocol, 2896
    - inventory of exploratory longline fishing effort and catch rates for tunas and swordfish, 14063
    - water masses and density stratification, atlas, 11629
  - notice to mariners, 3641
  - radio navigational aids, changes, 5336, 9974, 11646, 14580, 18102
  - radio weather aids, changes, 1540, 9975, 14581
  - tropical—
    - Equalant III data report, 8569
    - seabirds, identification manual, 2752
    - western, snappers, field guide, 8019
- Atlantic-Pacific Interoceanic Canal Study Commission:
  - annual report, 14929
  - appropriations, 1967—
    - decrease, amendment, 10496
    - law, 403
  - appropriations, 1968—
    - bearings, 10634, 10393
    - report, 13678
  - appropriations, 1968, authorization, increase—
    - bearing, 12403
    - report, 12367
  - investigations and studies, sea level canal site, final report, extend termination date, hearings, 10664
  - termination date, extend—
    - bearing, 12403
    - report, 12367
- Atlantic Scientific Research Institute for Fisheries and Oceanography, USSR, economic-mathematical and cybernetic research at AtlantNIRO, 1202
- Atlantic States:
  - Coastal Plains Economic Development Region, designating (remarks), 1955
  - floods, South Atlantic slope basin, Ogeechee River to Pearl River, 2374
  - Mid-Atlantic power failure, June 5, 1967, hearings, 13850
  - Middle, fisheries, annual summary, 8017
  - north Atlantic slope basins, surface waters, quality, 8184, 17834
  - south—
    - fisheries, annual summary, 9505
    - strawberry culture, 1685
  - south Atlantic slope basins, surface waters, quality, 8184, 17834
- Atlantida, case study in household sample surveys, 142, 1885, 4360, 7497, 10387
- Atlantida, un estudio de caso en encuestas de hogares por muestra, 5898-99, 7496
- AtlantNIRO, *see* Atlantic Scientific Research Institute for Fisheries and Oceanography, USSR.
- Atlases:
  - atlas of off-road ground roughness P.S.D.'s, etc., 4195
  - catalog of copyright entries, 12433
  - congressional districts, 90th Congress, 1858
  - Indian Ocean, interpolated values of depth, salinity, etc., 15624
  - isothermal and isophotic atlas of moon contours through lunation, 16894
  - July oceanographic conditions in north-east Pacific Ocean, 8041
  - oceanographic, Tampa Bay and adjacent waters of Gulf of Mexico, 12545
  - water masses and density stratification, western north Atlantic Ocean, 11629
  - world atlas of atmospheric radio refractivity, 4747
- Atmosphere:
  - atmospheric data, mixed frequency distributions, estimation, 12947
  - atmospheric emissions from nitric acid manufacturing processes, 5428
  - atmospheric transmission of infrared radiation from 2-5 microns for slant paths from 35,000 ft. to upper limit of atmosphere, survey, 12931
  - combustibility of materials in oxygen-helium and oxygen-nitrogen atmospheres, 5706
  - controlled—
    - fruit storage, development, 7959
    - quality and display life of carnation blooms after storage, 15863
  - density between altitudes of 180 KM and 300 KM, investigation, 8860
  - effects on—
    - characteristics of maximum-size radio-telescopes, USSR study, 5012



## Atmosphere—Continued

- effects on—continued
  - intestinal and skin flora—
    - experimental data, 9799
    - literature survey, 2613
  - errors in microwave azimuth measurements, experimental study, 2224
  - fire protection problems for special atmospheres, including oxygen, 17816
  - flammable, temporary lights, maritime safety data, 17889
  - hyperbaric, containing oxygen, nitrogen, and/or helium, flammability of materials, preliminary studies, 11675
  - investigating with rockets and satellites, methods, 6911
  - lower 100-m layer, recurrence of temperature and wind velocity combinations, experimental calculation, 11565
  - Mars, feasibility study of experiment for determining properties, 14371
  - Martian, water vapor, particulate matter, and carbon dioxide profiles, flyby measurements, 15569
  - metastable molecules, 4153
  - naval weather service computer products manual, 15618
  - nuclear submarine, purification and control, chemical research status, annual progress report, 17084
  - optical radar measurements, 8420
  - oxygen-helium, man's exposure—
    - behavior factors, 86
    - clinical observations, 90
    - enteric microbial flora, 79
    - excretion of steroids and catechola mines, 7366
    - exercise and cardiovascular response, 88
    - feeding bite-size foods, 82-83
    - heat exchange, 81
    - introduction and general experimental design, 91
    - major and minor atmospheric components, 89
    - oral, cutaneous and aerosol bacteriologic evaluation, 84
    - renal response, 87
    - respiratory function, 80, 92
    - selected blood enzyme response, 85
  - Park Range atmospheric water resources program, phase 1, 11774
  - particle, improved analyzer, 15529
  - planetary—
    - outgoing infrared radiance, theoretical computations, 14457
    - predictions of shock-layer radiation from molecular band systems, 6890
    - structure, from on-board measurements of pressure, etc., 9904
    - Venus and Mars, investigation, 5276
  - prebiological, thermodynamic equilibrium, 11426
  - recycled, removal of strong-acid gases by dry-packed beds, 5350
  - safety in industry, maritime safety data for shipyards, shipboard ventilation for hazardous atmospheres, 8299
  - space-cabin atmospheres—
    - engineering tradeoffs of one-vs.-2-gas systems, literature review, 12879
    - oxygen choice for spacecraft, Apollo accident, hearings, 6088-89, 9299, 10796, 12396
    - physiological factors of inert gases, 9823
    - selection, engineering criteria, 16912
  - tissue oxygenation during hemorrhage in dogs breathing 1 and 3 atmospheres of oxygen, 15895
  - trace contaminants in closed ecologic atmospheres, analysis, 7350
  - tropospheric radio duct meteorology at VHF and UHF in theory and as observed on trip around world, 1551
  - U.S. standard atmosphere—
    - 1962, corrigenda, 17023
    - supplements, 17024

## Atmosphere—Continued

- upper—
  - microorganisms, 66-68, 1732-33
  - radioactivity sampling, agreement with Australia, 5538
  - sampling radioactivity by means of balloons, agreement with Australia, 2923
- water—
  - substance continuity, water formations, etc., 15231
  - vapor observations, 5362
  - yield increase through technology development plan, 5480
- what should cosmonauts breathe? USSR study, 5619
- see also Mesosphere—Stratosphere.
- Atmospheric electricity, recording, use in fog forecasting, 8590
- Atmospheric entry:
  - Apollo aircraft, infrared equipped for re-entry tracking, navigation accuracy, 1507
  - deduction of reentry plasma properties about manned orbital spacecraft from radio signal attenuation data, 14494
  - entry flight aerodynamics from Apollo mission AS-202, 17003
  - heat-transfer measurements on rotor blade of rotor entry vehicle model, 12965
  - high-drag entry shapes, aerodynamic investigation at Mach 15.4, 16986
  - laminar separations using Crocco-Lees mixing parameter, analytic method, investigations, 9806
  - landing characteristics of dynamic model of HL-10 manned lifting entry vehicle, 2685
  - lateral-directional handling qualities of piloted re-entry vehicles, 12860
  - planetary atmospheres, prediction of shock-layer radiation from molecular band systems, 6890
  - planetary entry, heat-transfer and temperature distribution of conical porous membrane, 11554
  - reentry trajectories, ballistic, at velocity of 50,000 f.p.s., 12932
- Atmospheric pressure:
  - high ambient pressure, effects on breathing, 12792
  - hypobaric and hyperbaric pressure effect on cell permeability, initial observations, 7356
  - low pressure normoxic environments, effect on oxygen uptake in mice, 76
  - upper stratosphere and mesosphere, measurements, 17012
- Atmospheric refraction, world atlas of atmospheric radio refractivity, 4747
- Atmospheric Research, National Center, see National Center for Atmospheric Research.
- Atmospheric Turbulence and Diffusion Laboratory, ESSA technical memorandum, IERTM-ATDL, series, 9427
- Atomic absorption:
  - determination of gold in geologic material by atomic absorption spectrometry, 16688
  - spectrophotometry, modified method for determining uranium isotopes, 13368
- Atomic auxiliary power generators, SNAP-8 alternator speed controller and alternator performance results, voltage distortion effects, 12950
- Atomic blasting:
  - nuclear explosives, possible use in construction of sea-level canal (remarks), 1819
  - Plowshare program, civil, etc., used for nuclear explosives, 13342, 15962, 17394-398
  - potential effects of Project Chariot on local water supplies, northwestern Alaska, 2369
- Atomic clocks, nuclear clocks, description, use, etc., 7442



# INDEX 1967

Atomic debris, *see* Radioactivity.  
 Atomic energy:  
   act of 1946, compilation, 1979  
   animals in atomic research, uses, etc., 15977  
   atoms and the ocean, role of nuclear energy in exploring, etc., radionuclides in ocean, 15978  
   civilian nuclear power, report to the President, 1962, 1967 supplement, 7436  
   code of Federal regulations, 12521  
   coolants for nuclear power, engineering installations, USSR study, 1260  
   cooperation for civil uses, agreement with—  
     Argentina, application of safeguards of IAEA, 2893  
     Australia, 14687  
       application of safeguards by IAEA, 7160  
     Austria, 7171  
     Brazil, 7167  
     China, Republic, 2929  
     Indonesia, 7165  
     Iran, 10103  
     Israel, 7157  
       application of safeguards by IAEA, 5533  
     Philippines, 13144  
     South Africa, 15801  
       application of safeguards of IAEA, 17240  
     Spain, application of safeguards of IAEA, 8736  
     Sweden, 2910  
     Switzerland, 2900  
     Turkey, 2898  
   cooperation, international agreements, hearings, 1973  
   desalting and energy development and utilization, policy considerations, 15969  
   dove variety (remarks), 7435  
   energy dependence of free radical production in alanine, 1744  
   energy required to produce electron-hole pair in silicon by tritons, 1501  
   fundamental nuclear energy research 1966, 4241  
   high energy physics, physical research, summaries of projects supported by AEC, 13344, 15966  
   industry and government, complementary roles (remarks), 131  
   international conference on instrumentation for high energy physics, 1966, proceedings, 7419  
   legislation through 89th Congress, 2d session, compilation, 4558A  
   levels, X-ray, 17036  
   nuclear education activities, guide, 5796  
   nuclear energy for—  
     electric power (remarks), 8914  
     water desalting, bibliography, 12014  
   nuclear facilities, routine surveillance, report, 7065  
   nuclear industry—  
     1966 report, 1816  
     1967, report, 17406  
   nuclear materials management, AEC-contractor meeting, 13316  
   nuclear power—  
     and Navy (remarks), 7439  
     and Northwest (remarks), 1817  
     briefing for coal industry, 8904  
     for water desalination (remarks), 10313  
     new look (remarks), 10310  
     next decade of development (remarks), 8915  
     policy and prospects (remarks), 1818  
     sources, study, 7756  
     2 years after Geneva (lecture), 133  
   U.S. program (remarks), 8919  
   nuclear power-desalting combination project—  
     hearings, 7749, 7813  
     laws, 375, 10487  
     reports, 675, 6078, 7731, 9125

Atomic energy—Continued  
   nuclear proliferation problem (remarks), 12020  
   peaceful uses—  
     new world, cooperative use of atomic energy (remarks), 12022  
     nuclear energy, generation of progress (remarks), 12023  
     of nuclear energy (remarks), 4243  
     proliferation of peaceful atom (remarks), 10315  
     power from radioisotopes, 7444  
     products, current industrial reports, 16002  
     program, in Lahore, Pakistan (remarks), 4244  
     programs, major activities, 7437  
     publications, price list, 1564, 17136  
     reactor energy release by nonuniform fuel distribution, experimental study, USSR, 1295  
   research progress reports—  
     Agricultural Research Laboratory, University of Tennessee, progress report, 7425  
     New Brunswick Laboratory, 13332  
     Plasma Physics Laboratory, 13330  
     scientific progress and application to have worldwide problems (remarks), 15974  
     two partnerships for nuclear progress (remarks), 8918  
     understanding the atom series, 7442-45, 15977-978, 17408-409  
   Index, 17409  
   use, general information, 8912  
   USSR, recent developments, 9623  
 Atomic Energy Agency, International, *see* International Atomic Energy Agency.  
 Atomic Energy Commission:  
   AEC-contractor nuclear materials management meeting, 13316  
   AEC-NASA liquid metals information meeting, 125  
   AEC-NASA tech briefs, 5139-56, 6695-6704, 8384-8404, 9793-98, 11390-392, 12832-845, 14363-369, 15485-494, 16877-887, 17919-932  
   AEC research and development reports, 123-129, 1774-1812, 4231-38, 5755-95, 7417-33, 8901-11, 10297-304, 12000-19, 13313-349, 14808-809, 15953-969, 17390-400  
   AEC symposium series, 10297, 12003, 14808, 15959  
   Air Cleaning Conference, Boston, Mass., Sept. 13-16, 1966, proceedings, 12004  
   airborne radiometric reconnaissance, 1952-56, maps, 1801-3  
   appropriations, 1967, public works—  
     hearings, 939  
     law, 403  
     appropriations, 1968, amendments, 7600, 10509  
     appropriations, 1968, authorizing—  
       hearings, 9041, 10491  
       law, 13536  
       reports, 13635, 13642, 13792  
     appropriations, 1968, public works—  
       hearings, 12287, 16393  
       report, 13678  
     authorize grants to States for record-keeping system for radiation workers, hearings, 1974  
     budget, 1968, decreasing, 9062  
     cataloging reports, corporate author entries, 13345  
     contracting for construction and architect-engineering services, guide, 13350  
     controlled thermonuclear research, policy and action paper, 1806  
     facilities, industrial accidents, 1956 revised summary, 15967  
     film catalog (16 mm), professional level, 5800  
     financial report, 17403  
     fundamental nuclear energy, 1966 research, 4241

**Atomic Energy Commission—Continued**  
 further research and development in nuclear domestic and international safeguards (remarks), 12020  
 General Advisory Committee, commemoration of 100th meeting, 8913  
**Health and Safety Laboratory—**  
 fallout program, quarterly summary reports, 5774, 10299, 13324  
 appendixes, 5775, 10300, 13325  
 standard procedures manual, 1795, 13336  
 high temperature thermometry seminar, papers presented, 129  
 library, mechanization of legislative information, 5790  
 licensing guide, 15957  
 news release index, 13312  
 nuclear power-desalting project, authorize—  
 hearings, 7749  
 laws, 375, 10487  
 reports, 675, 6078, 7731, 9125  
 physical research in physics and mathematics, summaries, 12015  
 press releases, 3705  
 programs, major activities, 7437  
 report—  
 departmental edition, 7434  
 document edition, 7767  
 research in high energy physics, summaries, 13344, 15966  
 rules and regulations, 3050  
 selected products in low-dose food irradiation program, cost-benefit study, 10302  
 selling to AEC, errata, 4245  
 Speaker Bureau for Washington Metropolitan area, availability of speakers, 5798  
 specialized information and data centers, directory, 1814  
 subject headings used in indexing nuclear science abstracts, 128  
 telephone directory, 14810  
 transferring control of land in Otowi section to—  
 law, 407  
 report, 4503  
 uranium enrichment services and related matters, hearings, 1976  
**Atomic Energy Joint Committee:**  
 committee prints, 4458A, 13542  
 hearings, 1972-76, 9041, 10491, 12184  
 reports, 675, 13635, 13792  
**Atomic ordinance, Federal item identification guides for supply cataloging, supplements, 3293**  
**Atomic power, see Atomic energy.**  
**Atomic power plants, see Nuclear reactor power plants.**  
**Atomic warfare:**  
 civil defense, protection against what, programmed orientation to civil defense, 13428  
 damage effects estimation techniques, 13426  
 nuclear defense, Army field manual, 1758  
 radiological countermeasures ashore, 17068  
**Atoms:**  
 atom and evil, problem of nuclear proliferation (remarks), 12020  
 atom in world affairs (remarks), 130  
 atoms and the ocean, role of nuclear energy in exploring, etc., radionuclides in ocean, 15978  
 atoms for sale, visit to USSR isotope center, 16770  
**Atoms in Action, Nuclear Science Demonstration Center, Panama City Panama—**  
 opening ceremonies (remarks), 8916  
 operations (remarks), 8917  
 free-stream atom concentration in hypersonic flow, use of self-calibrating catalytic probes to measure, 11408

**Atoms—Continued**  
 new problems in safeguarding the atom (remarks), 12021  
 optical orientation, maximum response of magnetometer, USSR study, 17870  
 peaceful atom comes to Hawaii (remarks), 12025  
 understanding the atom series, 7442-45, 15977-978, 17408-409  
 index, 17409  
 volume ion production costs in tenuous plasmas, general theory, 15577  
**Attaches, see Agricultural attache.**  
**Attachment:**  
 exemptions, in case of nonresidents, amend D.C. code, report, 9086  
 wage garnishment, prohibit, hearings, 17594  
**Attack and defense (military science), see Military art and science.**  
**Attendance, full-time, school certification for social security purposes, 15743**  
**Attention, new veterans! older veterans!, 15220**  
**Attenuation:**  
 diode discriminator threshold, transistor biased amplifier minimizes, 16883  
 microwave, measurements and standards, 8523, 14515  
 ultrasonic—  
 for free electrons in presence of magnetic field theoretical investigation, 2705  
 in superconducting niobium, 5273  
**Attitude control, see Satellites—Spacecraft.**  
**Attitude indicators, developmental instrument supplies accurate attitude and attitude-rate data, 6770**  
**Attitude instrument dying, change, 1767**  
**Attitudes, past and future, 1813**  
**Attix, Frank H., luminescence dosimetry, 10297**  
**Attorney General, see Justice Department.**  
**Attorneys, see Lawyers.**  
**Auctions, livestock, how packers and stockyards act applies, 15870**  
**Audio frequencies, accurate phase-angle measurements, standard, 6924**  
**Audio-visual education:**  
 Army audio-visual support center operations, field manual, 4206  
 audiovisual materials, sources, 7912  
 circulation of visual and auditory materials of educational, scientific and cultural character, agreement and protocol, 5546  
 educational, scientific, and culture character—  
 Implement Beirut agreement—  
 law, 371  
 reports, 653, 903  
 Implement Florence agreement—  
 hearing, 951  
 report, 655  
**Audiologist, examination announcement, discontinuance notice, 14861**  
**Audiology, professional careers, examination announcement, 13448**  
**Auditing:**  
 career, Defense Contract Audit Agency, 16459  
 Commerce Department audit activities, efficiency, etc., GAO review, 14158  
 food donation programs administered by nonprofit agencies, audit extent, GAO review, 8149  
 Health, Education, and Welfare Dept., career, 7 good reasons for starting, 8195  
 your professional auditing future, Defense Dept., 4683  
 see also for audit reports, names of corporations, etc.  
**Auditors:**  
 Defense Contract Audit Agency, career opportunities, 9365

- Auditors—Continued
  - examination announcements, 4390, 12101
  - amendments, 199, 201, 1908, 5919, 13438, 16067
  - discontinuance notice, 7535
  - internal auditor, Internal Revenue Service career for management-minded accounting graduates, 2405
  - pay, national survey, 2507
- Auditory vigilance as affected by signal rate and intersignal interval variability, 11346
- Audubon, John J., 20-cent air mail postage stamp (poster), 8612
- Aune, Hazel V., public health personnel in local health units, 10059
- Aunon, Jose E., relief, 13769
- Aurex Corporation, relief, 7641, 13476, 13728
- Auscultatory blood pressure, *see* Blood pressure.
- Auseon, Donald E., relief, 306, 844
- Ausmus, Norma F., current employment, market for engineers, scientists, and technicians, 4727
- Austin, L. G., fuel cells, 15514
- Australia:
  - atomic energy cooperation for civil uses, agreements, 7160, 14687
  - background notes, 13131
  - capsule facts for Armed Forces, 15917
  - Christmas Island, mineral industry, minerals yearbook chapter, 9759
  - cotton, recent developments, 2286
  - defense space research facility, agreement, 7189
  - east coast, sailing directions, change, 11636
  - education, Educational Foundation and financing of exchange programs, agreement, 15770
  - health information for travel, 13078
  - lights and fog signals, list, changes, 1537, 7004, 11642, 18099
  - market information on electronic products, 16105
  - mineral industry, minerals yearbook chapter, 5109
  - Nauru Island, mineral industry, minerals yearbook chapter, 9759
  - plant quarantine import requirements—changes, 13206, 17302
  - revised pages, 8311
  - radioactivity sampling of upper atmosphere, agreements, 2923, 5538
  - south coast, sailing directions, change, 11637
- Austria:
  - air transport services, agreement, 2905
  - atomic energy cooperation for civil uses, agreement, 7171
  - background notes, 10090
  - capsule facts for Armed Forces, 17367
  - mineral industry, minerals yearbook chapter, 8343
- Authors:
  - L. C. national union catalog, cumulative list, 3601
  - register of additional locations, 16838
  - progressive fish-culturist, cumulative author index, 1081
  - technical writer, examination announcement, 1931
- Autocorrelator electronic system, *see* Pulse autocorrelator electronic system.
- Auto-diagrammer, *see* Electronic computers.
- Automatic addressing system, 2143
- Automatic Control, International Federation, *see* International Federation of Automatic Control.
- Automatic data processing equipment, *see* Electronic data processing systems.
- Automatic feeding equipment for livestock and poultry, 8830
- Automatic machinery with variable structure, USSR study, 15382
  - see also* Robots.
- Automatic Standard Magnetic Observatory, general information, errata, 5946
- Automatic system for analysis of time variant data, 4748
- Automatic typographic-quality typesetting techniques, state-of-the-art review, 9942
- Automation:
  - automatic analysis of microscope objects, problems, working conference in Pushchino-on-the-Oka, 1219
  - automatic control—
    - determining courses of study, 1017
    - system, searchless adaptive variable structure, principle of construction, USSR study, 4933
  - automatic electronic test and check-out, definition of terms, military standard, 7861
  - automatic guidance of automobiles, prospects, USSR study, 16762
  - automating wool weaving looms, 1186
  - automation and banking structure (remarks), 6297
  - chemical production, all-Union scientific-technical conference, 2454
  - dairy plants manufacturing ice cream and ice cream novelties, layouts and operating criteria, 1702
  - electronic circuitry used to automate paper chromatography, 12913
  - geodetic work, Hungary, 15365
  - machines for centralized control, USSR book, 4937
  - manpower and automation—
    - in perspective of long-term technological change, seminar on manpower policy and program, 2487
    - research notice, 3535
  - manpower, research monographs, 16793
  - Soviet research, 6499
  - technology—
    - Communist Chinese abstracts, 3117
    - East European abstracts, 3219
    - USSR abstracts, 4027
  - troop control, methodological problems, USSR study, 8273
  - working with automation, seminar, 11300
- Automations:
  - determination of regularity by canonical equations, 6581
  - variable-structure automata, USSR study, 17861
- Automobile accidents, *see* Motor vehicle accidents.
- Automobile drivers, medical advisory boards for driver licensing, some State programs, 8638
  - see also* Motor vehicle operators.
- Automobile graveyards, *see* Automobiles.
- Automobile insurance, study, report, 17578
- Automobile parking, *see* Parking of vehicles.
- Automobile parts, *see* Automobiles.
- Automobile seat belts, anchorages for seat belt assemblies in automotive vehicles, Federal standard, 6315
- Automobiles:
  - and air pollution, program for progress, 17470
  - automatic guidance, prospects, USSR study, 16762
  - Canadian agreement, implementation of automotive products trade act of 1965, annual report, 7803
  - commercial rental cars, revision of method of supplying by GSA, GAO report, 9558
  - consumer buying intentions, 1878, 5884
  - disposal, national problem, case studies, 8326
  - Fiat-Soviet plant and Communist economic reforms, report, 12291
  - print additional copies, report, 10594
  - instalment credit developments—
    - periodical, 7993
    - seasonally adjusted data, 7994
    - seasonally unadjusted data, 7995

**Automobiles—Continued**  
loan characteristics at major sales finance companies, 7992  
ownership and purchases, 1960-67, special report, 14832  
price indexes for 1967 model, 16832  
recent purchases and expected expenditures, report of U.S. households, 16027  
safety standards in national traffic and motor vehicle safety act of 1966 (remarks), 1964  
sedans, etc., standard models and special equipment requirements, military standard, 15189  
USSR industrial development, automotive industry, translations, 4015  
Automotive air pollution, 761  
Automotive parts, see Repair parts.  
Automotive tires, see Tires.  
Automotive trades, see Motor vehicles.  
Automotive vehicles, see Motor vehicles.  
Auxiliary power systems for lunar roving vehicle, 16891  
Avery, James P., Army fixed-wing cargo restraint design criteria analysis, 10289  
Avery, T. Eugene, forester's guide to aerial photo interpretation, 4097  
Aves, see Birds.  
Avian leukosis:  
outline of diseases of complex, 50  
viruses, paths of intracellular synthesis, USSR study, 6534  
Aviation, see Aeronautics—Aircraft.  
Aviation boatswain's mates, E 1 & C Navy training course, 7010  
Aviation electrician's mate 1 & C Navy training course, 11653  
Aviation fields:  
airfield design emergency construction, general provisions, 4215  
Army airfield-heliport design, general provisions and criteria, technical manual, change, 10274  
drainage and erosion control structures for airfields, emergency construction, 110  
drainage, surface facilities for airfields and heliports, emergency construction, 4214  
arctic and subarctic, 7395  
military, instrument approach procedure charts, 3555  
pavements, evaluation concepts—  
Army technical manual, 10275  
emergency construction, 7392  
USSR test airfield of Soviet air forces, 16738  
Aviation fuels, see Motor fuel—Turbine fuel.  
Aviation machinists:  
mate J 3&2, and J 1&C, Navy training course, supplement, 11654  
mate R 1 & C, Navy training course, 14583  
mate R 3&2, supplement, 11655  
Aviation maintenance administration man 1 & C, Navy training course, 7011  
Aviation medicine, see Medicine.  
Aviation ordnanceman, 3 & 2, Navy training course, 7012  
Aviation storekeeper, 3 & 2, Navy training course, 8575  
Aviation structural mechanics, see Mechanics (persons).  
Aviators:  
aeronautical communications and pilot services, ATS handbook, 2991  
agricultural, protect, case studies, 140  
allergy and sinus disease, 14782  
aortic insufficiency in flying personnel, 17348  
category 2 operations general aviation airplanes, 17742  
certificated pilot flight and ground schools, list, 11092

**Aviators—Continued**  
disorientation, fatal effects under either IFR or VFR 3801  
dizziness and vertigo, 17359  
flashblindness F-106B aircraft experiment, 17349  
flight navigator written examination guide, 2283  
hearing survey, 17356  
impairment of airmanship by alcohol, 4251  
incidence of ear, nose, and throat diseases in test pilot candidates, 14781  
instrument pilot examination guide, 6358  
light-aircraft pilots, non-instrument-qualified, performance during instrument flight, simple stability augmentation system, effects, 11519  
measurement of low frequency vibrations in big helicopters and their transmission to pilot, 11564  
medico-physiological incidences on pilot for flight patterns typical of VTOL, 11563  
memorandum for aviators, 3548  
military pilot training, requirements, and inventories, hearings, 13843  
of flight and bold men, 5704  
performance tests for operator-skills research, 1821  
physiological responses of pilots to severe weather flying, 5804  
pilot schools, Federal aviation regulations, 6241, 11000  
pilot vision, effect of age on binocular fusion time, 4253  
pilotage, simulated performance, hangover effect of secobarbital, 7364  
pilots and flight instructors, certification, Federal aviation regulations, 1040, 4578, 6239, 7949, 10991, 12494, 14005, 16554  
private pilot, written examination guide, 14071  
response speed, frequency, and flexibility, review, analysis and device demonstration, 16904  
search and rescue operations for U.S. private pilots missing in foreign areas, 16329  
undergraduate pilot and navigator training, relationship of AFOQT scores to success, 13267  
see also Notice to aviators.  
Avocados, production, use, value, 1965-66, by States, 14696  
Awards (arbitration):  
National Railroad Adjustment Board, 2760, 5322, 6988-90, 8565, 9965, 11621-622, 14556-559, 15614-615, 17055-56  
Awards (incentive), see Rewards (prizes, etc.).  
Awbrey, Stuart, Peace Corps volunteer, 3676  
AWOL and consequences, 5736  
Axelton, Elvera A., ponderosa pine bibliography, 17805  
Axial compression, structural efficiency of ring-stiffened corrugated cylinders, 14470  
Axial fans, see Mechanical fans.  
Axial flow, see Flow.  
Axtammetric vibrations of partially liquid-filled cylindrical containers, 12942  
Aydelott, John C., normal gravity self pressurization of spherical liquid hydrogen tankage, 18019  
Ayrshire cattle, see Cattle.  
Azerbaijdzhan Soviet Socialist Republic:  
Academy of Sciences, annual meeting, 1966  
activities discussed, 9668  
retail and wholesale networks, problems, 1171  
Azimuth, microwave measurements, atmospheric errors, experimental study, 2224  
Azov, Sea of, lights and fog signals, list, changes, 1538, 5333, 11643, 18100  
Azovskoye More, see Azov, Sea of.

## B

- Babies, *see* Infants.
- Babitzke, Herbert R., columbium and tantalum alloy development, 11359
- Babylon, N.Y., population, special census of town, 16024
- Bachman, Earl E., recreation of facilities, personal history of their development in national forests of California, 17799
- Bachman, George O., geology and mineral resources of Salt Lake area, etc., 17821
- Bacillus thuringiensis, field testing for control of western hemlock looper, 14140
- Backer, Julie E., infant mortality problems in Norway, 17167
- Backfills, *see* Hydraulic mine filling.
- Bacsalmassy, John A., relief, 13770
- Bacteria and bacteriology:
- aerobic-bacteria culture apparatus employing new foambreaker, 10007
  - aspects of 20 days in full pressure suits, 20 days at 27,000 ft. on 100% oxygen and 34 days of confinement, 6723
  - bacteria of living and dead larvae of *Porthetria dispar*, 8075
  - bacterial kidney disease of salmonid fishes, 4802
  - bacteriology of clean rooms, 17937
  - clostridium toxins and bacterial aerosols, microbiological studies, 11290
  - combined propagation of unicellular algae and bacteria, Hungarian study, 12691
  - enteric microbial flora of man in oxygen-helium atmosphere, 79
  - food utensils, etc., examination procedure, 17164
  - motility of bacteria, medium improved, 1737
  - oral, cutaneous and aerosol evaluation of man in oxygen-helium atmosphere, 84
  - radio-resistance, virulence and culture characteristics, effect of repeated treatment with gamma rays, 12018
  - reactions to bacterial antigens after irradiation, USSR study, 9665
  - see also* Clostridium—Intestinal flora—Skin flora, also names and classes of bacteria.
- Bacterial flora, *see* Bacteria and bacteriology.
- Bacterial warfare, *see* Biological warfare.
- Bacterial wilt, *see* Wilt disease.
- Bacteriological warfare, *see* Biological warfare.
- Badges, postal service, permit use in theatrical, television or motion picture productions, report, 14975
- Badlands National Monument, general information, 6975
- Baer, Jack, relief, 851, 12329
- Baez Hernandez, Ramon, relief, 9206, 12149, 12216
- Baffin Bay, sailing directions, 9968
- Baffles (mechanics):
- flexible and rigid ring, for dumping liquid oscillations in large-scale cylindrical tanks, effectiveness, 8493
  - thickness effects in fuel sloshing experiments, 2700
- Baggage, luggage, briefcases, and personal leather goods, current industrial reports, 3169
- Bagge, Carl E., nomination, hearing, 15153
- Bagnell, Douglas B., relief, 655
- Bagot-Rush Agreement Days, *see* Rush-Bagot Agreement Days.
- Bagpipes, duty-free treatment, reports, 7685, 15104
- Bags:
- Bag sewing operation, how to inspect chart, 9688
  - sacking, quick-change attachment for harvesting cotton research plots, 13198
- Bahamas:
- foreign trade regulations, 7576
  - long range proving ground, agreement, 17241
- Bahrain, *see* Bahrein.
- Bahrein:
- foreign trade regulations of Arabian Gulf States, 17480
  - geology, 6405
- Bail, return of fugitive bailees, hearing, 6117
- Bailey, Curtis R., oxidizer-rich oxygen-hydrogen combustion characteristics, 2708
- Bailey, Harry E., programs for computing equilibrium thermodynamic properties of gases, 9898
- Bailey, James E., launch vehicle wind and turbulence response by nonstationary statistical methods, 15505
- Bailey, John M., two supply cooperatives serving low-income farmers, analysis in Appalachia, 2231
- Bailey, Leslie F., tables of folded sin x/x interpolation coefficients, 4413
- Bailey, Marlon C., effects of dielectric covers over cross slots in rectangular waveguide, 18027
- Bailey, S. O., using parallel-T network for developing quadrature voltages at variable frequencies, 5361
- Bailey, Warren K., organizing and operating dryland farms in Great Plains, summary of regional research project GP-2, 7883
- Bailey bridges, panel type, technical manual, 1768
- Baird, Charles F., nomination, hearing, 15148
- Bairrington, Jarrell D.:
- anticoagulant effect of hemophilic blood, prolongation of clotting, etc., 10244
  - effects of monomethylhydrazine on coagulation mechanism, 17361
  - hemostasis and coagulation, 7340
  - in-vivo inactivation of factor VIII (anti-hemophilic globulin) by hydrazine, its relation to fibrinolytic mechanism, 14771
  - laboratory control of anticoagulation therapy, 17358
- Bait, Federal baiting regulations, waterfowl, questions and answers, 15258
- Baja California:
- bathyl and abyssal gammaridean Amphipoda of Cedros Trench, 17046
  - sardine and anchovy larvae distribution, etc., in California Current region, 8036
- Baker, Albert F., pressure drop across fixed beds of anthracite briquets and blast furnace materials, 11375
- Baker, Charles E., thermal conductivities of ordinary and deuterated gaseous hydrogen fluoride and their equimolar mixture, 12961
- Baker, John A.:
- addresses, etc.—
  - Dec. 5, 1966, 4109
  - Dec. 6, 1966, 4095
  - May 26, 1967, 13239
  - May 29, 1967, 13246
  - June 20, 1967, 13238
  - July 18, 1967, 13208
  - Aug. 26, 1967, 15875
- Baker, Olive Q., national patterns of R&D resources, funds and manpower in United States, 14562
- Baker, P. S., isotopes and radiation technology, quarterly technical progress review, 3449
- Baker, Roy V., gin trash collection efficiency of small-diameter cyclones, 15824
- Bakers and bakeries:
- baking industry, organization and competition, revised page, 5297
  - field bakery operations, technical manual, 15947
- Baking, *see* Bakers and bakeries—also names of foods baked.
- Balance (meteorology), *see* Meteorology.

balance of payments:  
 adjusting deficits through capital accounts (remarks), 4781  
 balance of payments and business outlook in United States (remarks), 5949  
 barter contracts for diamonds for stockpile, GAO report, 15293  
 corporate voluntary, program and lawyer (remarks), 224  
 dilemma of national balance of payments strictures and international development needs (remarks), 2949  
 Federal Reserve looks at (remarks), 2261 in 1966, 11048  
 interest equalization tax act on foreign securities, extend—  
 digest of testimony and statements, 9176  
 hearings, 6047, 13859  
 law, 13539  
 legislative histories of P.L. 90-59 and P.L. 89-243, 15052  
 reports, 7670, 7708, 13689, 13823  
 international capital, markets and financing of U.S. foreign trade and investment (remarks), 6300  
 methods and objectives for attaining (remarks), 10122  
 program, revised guidelines for banks and nonbank financial institutions, 4783  
 prospects for 1967 (remarks), 237  
 3d quarter, 1966, principal results (statement), 1657  
 U.S., and private capital outflows (remarks), 1966  
 U.S. spillover as it effects less developed countries (remarks), 13468  
 U.S. travelers, you can assist, 11887  
 United States position, observations by GAO, 17812  
 use of reserved foreign currencies in lieu of dollars, law, 395  
 voluntary agreements, safeguarding U.S. position, exemptions from antitrust laws, extend—  
 law, 14906  
 reports, 13647, 13674, 13811  
 voluntary program for direct investments, status and prospects (remarks), 5964, 7585  
 voluntary program, role of oil industry (remarks), 228  
 Balance sheets, *see* Finance.  
 Balanced Economic Development Commission, establish, hearings, 15156  
 Balcerak, John C., predicting aerodynamic loads and dynamic response of rotor blades of tandem-rotor helicopter, 13310  
 Balclutha, *see* Leafhoppers.  
 Bald eagle, *see* Eagles.  
 Baldwin, J. L., weekly weather and crop bulletin, national summary, 4046  
 Baldwin, John F., memorial services, 5967  
 Baldwin, Roy D., relief, 9256 13560, 14893  
 Baldy, Mount, primitive area, Ariz., mineral resources, 8156  
 Ball, Robert J., improved motility medium, 1737  
 Ball-bearing retainers, materials in 60° R (33°K) hydrogen gas at 0.8 million DN value, film-transfer studies, 2709  
 Ball bearings, *see* Bearings (machinery).  
 Ball lightning, *see* Lightning.  
 Ball mills, pulverizing lignite in ball mill, 15476  
 Ballance, Richard C., fly ash as coagulant aid in water treatment, 2573  
 Ballard, Robert F., Jr., structures instrumentation, Project Pre-Gondola, 17396  
 Ballinger, Roy A.:  
 markets for sweeteners, 4698  
 noncaloric sweeteners, their position in sweetener industry, 10916  
 Ballistic missiles, *see* Missiles.  
 Ballistic ranges, ablating bodies in, thermal radiation studies, survey, 5234

Ballistics:  
 ballistic limit of double-walled meteoroid bumper systems, 9893  
 jet pluming effects on static stability of ballistic bodies at Mach number of 6.00, 2691  
 test facility, for personal armor material, military standard, 9375  
 trajectories, minimal energy, for missions to Mercury, 9886  
 Balloons:  
 ammonia as inflater, compatibility with fabrics, 4836  
 moored, Federal aviation regulations, 10997  
 motion, probing by Doppler radar, 16532  
 passive geodetic satellite inflation rate study, 8426  
 Project EOLE, satellite meteorological research, agreement with France, 2906  
 radioactivity sampling of upper atmosphere, agreement with, Australia, 5538  
 sphere behavior and measurement of wind profiles, 11537  
 unmanned free, Federal aviation regulations, 10997  
 Ballots, *see* Elections.  
 Balsam fir, *see* Fir.  
 Balsam woolly aphids, *see* Aphids.  
 Baltic Sea:  
 lights and fog signals, list, change, 1539, 7005, 11645, 18101  
 sailing directions change, 5328  
 Baltimore, Md.:  
 area wage survey, 8309  
 port, 16525  
 wholesale food distribution facilities, 5650  
 Baltimore Methodist Board of Child Care, cost analysis study, 7231  
 Baltrukonis, J. H., structural dynamics of solid propellant rocket motors, 2611  
 Balz, Elmer H.:  
 ground-water resources of southern part of Jicarilla Apache Indian Reservation and adjacent areas, N. Mex., 17829  
 stratigraphy, etc., of Upper Cretaceous and Tertiary rocks, east-central San Juan Basin, N. Mex., 16693  
 Balneistan melon fly, 8841  
 Bands (muscle):  
 District of Columbia Police Department band, include members of Fire Department, etc., report, 7687  
 Marine Band, history, activities, etc., 9750  
 Bangkok, Thailand, U.S. trade center, 12654  
 Banes disease, *see* Brucellosis.  
 Banker, Dorothy C., mineral trade notes, monthly inventory, 3563  
 Bankhead-Jones farm tenant act, *see* Agricultural credit.  
 Banking, *see* Banks and banking.  
 Banking and Currency Committee, House:  
 calendar, 3472  
 committee prints, 725, 4528, 7740, 12290-291, 13700-701, 15018  
 hearings, 726, 9150-51, 1064-643, 12292, 15019-20, 16314-317, 17594-595  
 investigations and studies—  
 authorization, report, 7672  
 development lending in Africa, etc., authorization, report, 7718  
 expenses, reports, 7728-29  
 proceedings, unveiling portrait of Wright Patman, 4465  
 reports, 666-67, 690, 4497, 9137, 10597, 10602-603, 10607, 12284, 13634, 14945, 14961, 17572  
 Banking and Currency Committee, Senate:  
 activities, 89th Congress, 2d session, summary, 4633  
 calendar, 3491  
 committee prints, 4631, 4633, 6090-91, 9309, 10821, 17643



Banking and Currency Committee, Senate—  
Continued  
hearings, 4632, 6092, 7800-1, 9307-8,  
10817-820, 10822, 12399-402, 13845-  
849, 15150-152, 16396-397, 17641-642,  
17644  
investigations and studies—  
authorization, reports, 4593, 4624  
housing, Federal programs, etc., ex-  
penses, reports, 4594, 4625  
reports, 899, 4588, 4593-94, 6085, 9281-  
83, 10765, 12360, 12388, 12391, 13796,  
13812, 13816, 13822, 15095, 15132-  
133, 16360, 16367, 16385-386  
Bankruptcy :  
act, amend rel. to—  
administration of estates in superseding  
proceedings—  
hearing, 16420  
report, 9095  
bankruptcy courts determining dis-  
chargeability and nondischargeability  
of provable debts, hearing, 16420  
creditor committee functions and ex-  
penses—  
hearing, 16420  
report, 9093  
filing of claims—  
hearing, 16420  
report, 9094  
reallocation of part of filing fee, report,  
16248  
referees, hearing, 16420  
legislation 1967, hearing, 16420  
statistical tables, 5612  
Banks, Nathan, caddis flies, types of species  
described, 14542  
Banks, Wayne G., who starts forest fires in  
Maine—and how? 8076  
Banks and banking :  
agricultural financing, 12530  
applications received, or acted on, by Fed-  
eral Reserve System Board of Governors,  
3035  
assets and liabilities, all banks—  
semiannual report, 7991, 16588  
semi-monthly report, 3046  
assets, liabilities, capital accounts, com-  
mercial and mutual savings banks, 7958,  
16567  
automation and banking structure (re-  
marks), 6297  
bank credit and monetary developments,  
8002  
bank credit cards and check-credit plans,  
development and implications (re-  
marks), 14037  
bank credit series, revision, 16595  
bank debts, 2264  
bank debts and deposit turnover, 3052  
bank holding company act of 1956, tax  
treatment of distributions pursuant to,  
reports, 659, 7692, 15093  
bank stock ownership and control, staff  
report, 4528  
print additional copies, report, 13654  
banking and farm finance, present chal-  
lenge (remarks), 6298  
banking and monetary statistics, 14038  
supplement, 2264  
banking markets and interest rates, evi-  
dence on concentration, 14040  
central banking, initiative and innovation  
in orchestration of monetary, fiscal and  
debt management policies (remarks),  
9493  
certificates of deposit, reappraisal (re-  
marks), 4784  
changing image of banks and bankers (re-  
marks), 16796  
code of Federal regulations, 11033, 12522  
commercial banks—  
accounts and deposits, June 30, 1966,  
national summary, 6247

Banks and banking—Continued  
commercial banks—continued  
commercial banks and interlocks among  
financial institutions, control, staff  
report, 15018  
underwriting of municipal revenue  
bonds, interest cost effects, 16592  
condition report of large commercial banks,  
weekly, 4055  
consolidated condition statement, 3046  
consumer installment credit, monthly re-  
port, 3142  
debts, demand deposits, and turnover  
(periodical), 7998  
debts to demand deposit accounts, etc.,  
9489-92  
Educational Opportunity Bank, establish-  
ment, panel report, 15663  
Federal reserve par list, 2258, 4782, 17762  
cumulative supplements, 3316  
Federal savings associations, establish  
with conversion of State-chartered  
banks, hearings, 15019  
financial institutions and urban rehabilita-  
tion (remarks), 16590  
financial institutions supervisory act of  
1966—  
law, 409  
reports, 666, 674, 691  
foreign assets control regulations, com-  
modity supplement, 8774, 17268  
foreign government restraints on U.S. bank  
operations abroad, economic policies and  
practices, 9045  
foreign operations under Federal reserve  
act, regulations, 9495  
insurance of savings accounts, questions  
and answers, 16571  
insured banks—  
maximum rates of interest paid, regula-  
tion, extend act—  
hearings, 17595  
law, 17541  
report, 13816  
offices insured by FDIC, list, supple-  
ments, 3514  
report, 1044  
time deposits, temporary ceilings on in-  
terest rates, report, 648  
interest rates, savings competition, and  
bank profitability (address), 11050  
laws related to banking, compilation, 1985  
mutual savings banks, Federal charter  
legislation, hearings, 15019  
nonmember banks that maintain clearing  
accounts with Federal reserve banks,  
list, 3895, 6305  
operating banking offices, list, 14021  
operating banks and branches, Dec. 31,  
1965-Dec. 31, 1966 changes, 14020  
participation loans with SBA, guide for  
private lending institutions, handbook,  
5490  
prohibit certain financial institutions from  
participating in gambling activities,  
hearings, 12292, 16397  
savings flows and public policy (remarks),  
1067  
time and saving deposits, changes, 11049,  
14039, 16589  
see also Federal home loan Banks—Fed-  
eral intermediate credit banks—Federal  
land banks—National banks—also head-  
ings beginning Federal reserve—also  
names of banks or places where located.  
Banks Lake :  
costs of operating and maintaining for  
recreational purposes to be nonreim-  
bursable, hearing, 7811  
reservoir, costs of operating and main-  
taining for recreational purposes to be  
nonreimbursable, report, 9264  
Bannister, Tommy C., Pegasus thermal  
design, 1477  
Banta, William C., new species of Victorella  
from southern California, 9953



- Baptists:  
illegal activities, USSR view, 1199  
workshop for Baptists on deafness and  
rehabilitation, University of Tennessee,  
2968
- Barany, Ronald, heats of formation of lith-  
ium sulfate and 5 potassium- and lithium-  
aluminum silicates, 2577
- Barbados:  
background notes, 17213  
capsule facts for Armed Forces, 15921  
foreign trade regulations, 9019  
barbed wire command, 14796
- Barber, Donald E., standards of perform-  
ance for film badge services, 10047
- Barber, Marvin R., evaluation of handling  
qualities of 7 general-aviation aircraft,  
1514
- Barcelona, Spain:  
U.S. Chamber of Commerce, 50th anniver-  
sary (remarks), 10463  
Spanish edition, 10464
- Barendsen, Robert D., education in Mao's  
China, 999
- Barger, Roland L., veneer volume and grade  
recovery from ponderosa pine in south-  
west, 14115
- Barges, ocean transport capability, con-  
tainer/barge quandry (paper), 12785
- Bargesi, Albert M.:  
data report, Equalant III, 8569  
oceanographic vessels of the world, 8568
- Barleau, Robert E.:  
method for treating PVT data from Bur-  
nett compressibility apparatus, 16863  
nonlinear regression and principle of least  
squares, evaluating constants and cal-  
culating variances and covariances, 6681  
thermodynamic properties of—  
fluids, etc., 9776  
van der Waals fluid in 2-phase region,  
11379  
zero pressure thermodynamic properties  
of nitrogen gas, 6636
- Barite, bedded, in East Northumberland  
Canyon, Nye County, Nev., 16689
- Barium sulfate, from sea water, deposition  
in oil-well rotary pumps, 11386
- Bark beetles, *see* Beetles.
- Barnard, J. Laurens:  
bathyal and abyssal gammaridean Amphi-  
poda of Cedros Trench, Baja, California,  
17046  
benthic amphipoda of Monterey Bay, Calif.,  
2751  
Pacific Ampeliscidae, 6961
- Barnard, Paul G., effects of rare-earth ad-  
ditions on plain-carbon steel, 6686
- Barnes, D. K., genetic traits in tetraploid  
and diploid alfalfa, 8849
- Barnes, Donald J., effects of pulsed ionizing  
radiation on primate equilibrium function,  
7354
- Barnes, Farrell F.:  
coal resources of—  
Alaska, 8157  
Cape Lisburne-Colville River region,  
Alaska, 15306
- Barnes, Harley, Cambrian and Precambrian  
rocks of Groom District, Nev., 14169
- Barnes, Harry H., jr.:  
magnitude and frequency of floods in  
United States, South Atlantic slope and  
eastern Gulf of Mexico basins, Ogeechee  
River to Pearl River, 2374  
roughness characteristics of natural chan-  
nels, 17833
- Barney, Alice Pike, memorial lending col-  
lection, catalog of paintings, 2747
- Barnoski, Richard L.:  
analog circuits for elastic structures, 5169  
dynamic characteristics of square plates  
by passive analog simulation, 5168  
maximum response of rectangular plates  
to random excitation, 16892
- Barnoski, Richard L.—Continued  
maximum response of simple beams to  
random excitation, 11381
- Bars:  
calf barn, open front pen type, building  
plan, 41  
portable calf pens, farm building plan,  
5659
- Barnwell, Richard W., numerical results for  
diffraction of normal shock wave by  
sphere and for subsequent transient flow,  
17015
- Baroldi, Giorgio, coronary circulation in  
normal and pathologic heart, 11999
- Barometric pressure, *see* Atmospheric pres-  
sure.
- Baron carbide, whiskers, straight growth  
produced in radial furnace, 9836
- Barone, Demetria M., relief, 13612, 13771
- Baroni, Lilliana G., relief, 12325
- Baroreceptors, *see* Pressoreceptors.
- Barr, Joseph W.:  
remarks—  
Oct. 24, 1966, 1656  
Nov. 3, 1966, 2949  
Nov. 17, 1966, 2955  
Feb. 4, 1967, 5571  
Apr. 20, 1967, 10122  
May 11, 1967, 11884  
Sept. 21, 1967, 17265  
Oct. 4, 1967, 17269  
Oct. 19, 1967, 18245  
Oct. 20, 1967, 18242
- Barracks and quarters, troop housing, Navy  
design manual, changes, 2764
- Barracough, J. T., hydrology of National  
Reactor Testing Station, Idaho, 16690
- Barranger, John, magnetically soft, high-  
temperature cobalt-iron alloy, 1500
- Barrels, steel shipping, current industrial  
reports, 3169
- Barrett, Ashton C.:  
nomination, hearing, 15153  
remarks—  
Mar. 9, 1967, 7968  
Apr. 10, 1967, 7969
- Barrett, Curtiss C., orbit adjust and station  
keeping gravity-oriented satellites, 2688
- Barrett, James W., record of ponderosa pine  
seed flight, 1089
- Barrington, A. E., instantaneous monitoring  
of multicomponent expired gases, 2601
- Barrington, Alfred E., flyby measurements  
of profiles of water vapor, particulate  
matter, and carbon dioxide in Martian  
atmosphere, 15569
- Barrow, Alaska, topographic map, 4199
- Barry, Anthony J., stress distributions in  
burst-prone coal pillars, 12824
- Barry, John P., pulse coding for clutter  
suppression, 10018, 14596
- Bars (metal, etc.):  
Federal item identification guides for sup-  
ply cataloging, supplements, 3288
- Bartek, Methodius J.:  
effect of oxygen on dog plasma sulphhydryl  
groups in vitro, 5712  
study of man in oxygen-helium atmos-  
phere, selected blood enzyme response,  
85
- Bartel, Dean P., relief, 7629
- Barth, Joseph J., connector for saturated  
standard cells, 11590
- Bartholomew Bayou:  
and tributaries, engineer report—  
departmental edition, 2202  
document edition, 2003
- Barton, Manes, water supply outlook and  
Federal-State-private cooperative snow  
surveys for Nevada, 4048
- Barton, Richard L., parachute opening, 16984
- Barton, William R.:  
sand and gravel, 5133  
slag iron-blast-furnace, 2590  
stone, 5134

- Bartosiewicz, John J., containers and packaging, quarterly industry report, 3147
- Bartz, Daniel J., use of adhesive labels for price-marking cases at grocery warehouses, 10155
- Basalt, aquifers, artificial recharge through well tapping, at The Dalles, Oreg., 16700
- Basel University, nuclear physics research activities, 5011
- Basements:  
home, fallout protection, evaluating techniques for improving, 5765  
making dry, 1698
- Basic Standards Institute, *see* Institute for Basic Standards
- Basora, Hilda, foreign trade regulations of Paraguay, 4446
- Bass, Richard L., relief, 7620, 10476, 10719
- Bass:  
striped—  
general information, 1076  
tagging summary, 8037
- Bassett, John R.:  
periodic cubic growth in natural loblolly stands near Crossett, Ark., 2324  
thinning loblolly pine from above and below, 8095
- Basutoland, *see* South Africa.
- Batavia, N.Y.:  
land transfer to—  
law, 12167  
reports, 703, 6004
- Bates, Jerry C., synthesis of 15 infrared horizon radiance profiles from meteorological data inputs, 9501
- Bates, Robert G., aeroradioactivity survey and areal geology of Pittsburgh area, 1779
- Bates, Roger G., Electrochemical Analysis Section, NBS, summary of activities, 18080
- Bathing units, field bath, facilities for troops, Army technical manual, 8885
- Batholiths, nature of, 6403
- Bathypelagic calanoid copepods of western Indian Ocean, 8548
- Bathyscaphes, French, departs for Japan, 9631
- Batteries, *see* Electric batteries—Storage batteries.
- Battery-powered vehicles, *see* Electric vehicles.
- Battle, Mark:  
addresses—  
Dec. 7, 1966, 2484  
Aug. 31, 1967, 17298
- Battle act, *see* Exports.
- Battle art, American Expeditionary Forces, 1918, exhibition, 8680
- Battle Mountain Indian Colony of Nevada:  
land in trust for cemetery—  
law, 14915  
reports, 13827, 14932
- Battlefields, *see* names of battles or battlefields.
- Battles, *see* names of battles, or places where fought.
- Bauer, Frederick L., industry wage survey, women's and misses' dresses, 6613
- Bauer, Helmut F., liquid sloshing in elastic containers, 16906
- Bauer, Mary L.:  
characteristics of persons with diabetes, 14638, 18189  
current estimates from health interview survey, United States, July 1965–June 1966, 11763
- Bauernschub, J. P., jr., nonmagnetic, explosive actuated indexing device, 11496
- Baum, Werner A., nomination, hearing, 6095
- Baumal, Allan, relief, 283
- Baumann, Lewis A., predicting quality of stored soybean oils, 15862
- Baumelster, Kenneth J., laminar flow analysis of film boiling from horizontal wire, 14456
- Baumol, Wm., economic theory and operational research, book review, 14225
- Bauxite:  
deposits—  
Anniston, Fort Payne, and Ashville areas, northeast Alabama, 2356  
northeastern Alabama, 2357  
Rock Run and Goshen Valley areas, northeast Alabama, 9561  
southeastern United States (series), 2356–57, 9561  
ferruginous, Pacific Northwest, adaptation of Pederson process, 9788  
Hawaiian ferruginous, metallurgical testing, report, 11374  
ores, high-iron, processing, 9766  
report, quarterly, 3053  
reserves and potential resources of the world, 8154
- Bay of Bengal, *see* Bengal, Bay of.
- Bayard-Alpert ionization gages, *see* Ionization gages.
- Bayer 73, toxicity to fish, 16624
- Bayley, R. W., geology of Menominee Iron-bearing district, 6398
- Bayo, Francisco, United States population projections for OASDHI cost estimates, 8686
- Bayous, *see* names of bayous.
- Bazan, Juan R. Diaz Zayas, *see* Diaz Zayas Bazan, Juan R.
- BDSA, *see* Business and Defense Services Administration.
- Beach, Norman E.:  
directory in plastics, knowledgeable Government personnel, 2157  
glossary of plastic terms, consensus, 4680
- Beach erosion:  
and coastal processes, 10953  
projects, Federal reimbursement policy, study—  
departmental edition, 6209  
document edition, 6057  
*see also* names of localities.
- Beaches, fill and borrow area behavior, Sherwood Island State Park, Conn., 13976
- Beacons, non-directional, maintenance, FAA handbook, 6236
- Beagle, Edward G., jr., relief, 7638
- Beal, Raymond H., heavy tip moth attacks reduce early growth of loblolly and shortleaf pine, 14120
- Beam, Richard M., axially symmetric response of elastic cylindrical shell partially filled with liquid, 6907
- Beam splitters, *see* Beamsplitters.
- Beams:  
electron-bombardment ion-thruster, measurement of ion and electron densities, 5244  
glued-laminated, flexural behavior, 8104  
nonuniform multibranch, longitudinal and torsional vibrations, matrix analysis, 6886  
prestressed concrete, durability and behavior, investigation, 9424  
simple beams, maximum response to random excitation, 14351  
vibrating, with linearly varying axial load, upper and lower bounds for eigenvalues, 2609  
*see also* Electron beams.
- Beamsplitters, dielectric infrared, operating in 5 to 30 micron region, development, 6721
- Bean, B. R., world atlas of atmospheric radio refractivity, 4747
- Beans:  
dry, 8th research conference, report, 11920  
dry, good choice for thrifty family, food value, use, recipes, 9348
- Bear Canyon, primitive area, mineral resources, 8155
- Bear River Migratory Bird Refuge, mammals, list, 6354

Bearden, J. A., X-ray wavelengths and X-ray atomic energy levels, 17036  
 Beardsley, Wendell, coat implications of camper and campground characteristics in central Colorado, 14113  
 Bearings (machinery):  
   air, provides friction-free support for shaker system slip table, 8402  
   ball bearings—  
     design concept to decrease relative speed, 14421  
     miniature, movement of oil in, factors affecting, 17089  
     temperature limitations of ester, ether, and hydrocarbon base lubricants, 15576  
   bearing torque and fatigue life studies with several lubricants, 11509  
   composites of porous metal and solid lubricants increase bearing life, 6742  
   Federal item identification guides for supply cataloging, supplements, 3285  
   full-floating-ring bearings, 12849  
   gas bearing components wear studies, 18003  
   high-temperature bearing cage materials, evaluation, 5274  
   hydrodynamic journal bearings, operation in sodium to 800° F, etc., 9901  
   improved rolling element bearings provide low torque and small temperature rise in ultrahigh vacuum environment, 6835  
   journal bearings in laminar and superlaminar flow regimes, steady-state and dynamic properties, 9803, 12849  
   laminated elastomeric bearings in Uh-1 helicopter tail rotor, evaluation, 17389  
   resilient bearing supports are gas controlled, 17975  
   rolling element bearings, tester for study, 8448  
   rotor-bearing systems, dynamic stability, 1439  
   SAE 52100 steel hollow balls, rolling-element fatigue life, 6879  
   superlaminar flow between nonconcentric rotating cylinders, 12852  
   tilting-pad bearings, 9803  
 Bears, *see* Polar bears.  
 Beatty, Robert W.:  
   errors in gain measurements in standard electromagnetic horns, 9944  
   microwave attenuation, measurements and standards, 8523  
 Beaty, Orren, Jr., nomination, hearing, 13883  
 Beaud, Louis, relief, 12327  
 Beaufort Inlet:  
   to Bogue Inlet, N.C., hurricane survey, engineer report—  
     departmental edition, 2203  
     document edition, 1996  
 Beaumont, Tex., area wage survey, 14294  
 Beautification:  
   aids for urban areas, as provided under housing and urban development act, 6415  
   America's airport beautification awards program, 17741  
   Greenspan plan for outdoor beauty, general information, 5672  
   guard against plant pests for beautiful America, 1713  
   guide to natural beauty, 11936  
   help Lassie keep America beautiful (poster), 16648  
   highway beautification act of 1965, review, hearings, 12311  
   highway program, 1967, report on costs and economic impact, 6054  
   print as S. doc., report, 4599  
   highway program, 1968, authorizations—  
     hearings, 15174  
     reports, 15126, 16272

Beautification—Continued  
   nurserymen play important role in restoring beauty to the land (statement), 4142  
   science and America's beauty, 15841  
   State projects, public participation in highway beautification, 5477  
   toward measuring intangible values of natural beauty (paper), 12461  
   urban America, Federal beautification and open-space land programs, questions and answers, 4902  
   USDA leadership for more beautiful countryside, 49  
 Beautiful junk, 17709  
 Beauty, Natural, Citizens' Advisory Committee on Recreation and, *see* Citizens' Advisory Committee on Recreation and Natural Beauty.  
 Beauty, Natural, President's Council on Recreation and, *see* President's Council on Recreation and Natural Beauty.  
 Beauty operators, so you want to be a cosmetologist, 15205  
 Beaver Creek area, Ariz., soil survey report, 11803  
 Beceiro, Daniel Pernas-, *see* Pernas-Beceiro, Daniel.  
 Bechuanaland, *see* South Africa.  
 Beck, W. J., Northwest Shellfish Sanitation Research Planning Conference, proceedings, 15683  
 Becker, Eugene M., nomination, hearing, 15148  
 Becker, Robert M., some anisotropic considerations in rock stress determinations, 12818  
 Beckett, C. W., physics and chemistry, journal of research, 3458  
 Beckham County, Okla., Sandstone Creek watershed, hydrologic effects of small reservoirs, 2376  
 Beckman, Norman, address, Sept. 11, 1967, 16707  
 Becky, Jun, *see* Jun, Becky.  
 Becoming a citizen series, 11211, 12630  
 Red springs, *see* Bedsprings.  
 Bedding, current industrial reports, 7479  
 Bedesem, M. P., internal Compton effect, 1430  
 Bedrest, *see* Rest.  
 Bedrock:  
   geology of—  
     Chepachet quadrangle, Providence County, R.I., 16685  
     Shin Pond and Stacyville quadrangles, Penobscot County, Maine, 17825  
     Island Falls quadrangle, Aroostook and Penobscot Counties, Maine, geological-geophysical investigations, 6401  
 Beds, classification definitions, 18117  
 Bedsprings, current industrial reports, 3169, 8941  
 Bee, *see* Bees.  
 Bee culture, beekeeping in United States, 13214  
 Bee moths, greater wax moth, description, control, etc., 10169  
 Bee Research Laboratory, Tucson, Ariz., research on honey bees, 10199  
 Beef:  
   good choice for thrifty family, food value, selection, recipes, 9344  
   in family meals, guide for consumers, 5630  
   slaughtering, cutting, and processing on farm, 4106  
 Beef cattle, *see* Cattle.  
 Beekeeping, *see* Bee culture.  
 Beem, Arley L., relief, 7633  
 Beer:  
   excise tax exemption by IRS for certain consumers, GAO review, 9554

- Beer—Continued  
imports into D.C., limit—  
hearings, 12294  
report, 14993
- Bees:  
beekeeping in United States, 13214  
diseases, identifying in apiary, 5624  
honey bees—  
protecting from pesticides, 7275  
research, Bee Research Laboratory, Tucson, Ariz., 10199  
trap-nesting, life histories, etc., 8685
- Becswax, production, estimates by number of colonies of bees, yield per colony, etc., by States, 4150
- Beet leafhopper, life history, host plants, and migrations in western U.S., 5686
- Beetles:  
bark beetles—  
chemosterilants to control, tepa shows promise, 14108  
cylindrical screen cage for rearing, 14114  
distribution of attacks on ponderosa pine trees in Montana, 11115  
black turpentine beetle, general information, 16646  
click beetles of genus *Melanotus* in America north of Mexico (Coleoptera, Elateridae), revision, 8545  
elm bark, general information, 10172  
*Eupariia* genus, with description of new species from nests of leaf-cutting ants in Louisiana (Coleoptera: Scarabaeidae), review, 15606  
European chafer, blacklight traps development for surveys, 7303  
*Glyptoscelis* genus, revision, 14533  
*Haematichiton* Gorham genus, review, 11608  
mountain pine beetle, description, control, etc., 17793  
*Triplax Herbst* genus, neotropical species, 11608  
western pine, forcing attacks to test resistance of pines, 8083  
*Xyloterius politus* Say, defects in birch associated with, pictorial description, 4833
- Beets, table, growing, 4113
- Behavior:  
activity patterns of campers, 8071  
behavioral aspects of deafness, research, conference proceedings, 2967  
changes in rats at ground level following gestation and growth in 100% oxygen at reduced pressures, 15899  
chimpanzee, physiological analysis of so-called foresight, USSR study, 1306  
man in oxygen-helium atmosphere, 86  
man, 1967 behavioral model, his chains revealed, 14401  
privacy and behavioral research, 7107  
research, international, Federal support, hearings, 10842  
rodent ethology, with emphasis on evolution of social behavior, comparative study, 15603  
see also Conduct of life.
- Behavioral Science Research Laboratory, technical research notes, 14804
- Behrendt, Donald R., influence of parent and daughter decay on tracer diffusion profiles, 14489
- Beikman, Helen M., Lincoln Creek formation, Grays Harbor basin, southwestern Washington, 12603
- Beirut agreement, see Audio-visual equipment.
- Bekkedahl, Norman, lecture, May 4, 1967, 9935
- Belanger, Roland, shipyard scaffolding, 17888
- Belgium:  
double taxation, convention, protocol, 2908  
establishing business in, 4435  
mineral industry, minerals yearbook chapter, 15467  
mutual defense assistance, agreement, 13148  
records of Dept. of State, microcopy, pamphlet to accompany—  
political relations with U.S., 18068  
relations with other states, 18069
- Belgrade, Yugoslavia, East of the Elbe, study mission report, 6104
- Bell, Glennis L., relative legibility of Leroy and teletypewriter symbols, 64
- Belleville Locks and Dam, Ohio River, navigation conditions, hydraulic model investigation, 1030
- Bellizia, Josephine A., relief, 769
- Belinard, Adel L., or heirs, relief, 610
- Bellows:  
stature tests reliability through repetitive pressure/temperature cycling, 11448  
metal, and flexible hose, predicting frictional loss, method, 9825D
- Bells, see Carillons.
- Belman, Albert A., wage chronology, International Paper Company, Southern Kraft Division, 8315
- Belorussian Soviet Socialist Republic:  
Belorussian State University's Physics Department program, 17871  
medical research development, 12731  
programmed instruction, status, 1218  
Scientific Research Institute of Animal Husbandry, achievements in 50 years of Soviet power, 15421  
scientists and engineers, more needed to train specialists in microelectronics and bionics, 1271
- Belorussian State University, Physics Department program, 17871
- Beloyarskoye, Russian SFSR, atomic electric power station Imeni I. V. Kurchatov, radiation situation in area, USSR study, 15406
- Belsterling, Charles A., fluidic systems design manual, 15955
- Beltin, web belt load measuring instrument has excellent stability, 14436
- Beltz, R. E., nucleic acids, annotated bibliography, 8534
- BEM pamphlets, 10419
- Benach Carreras, Bienvenido, relief, 271
- Bench, Nachman, relief, 9233
- Bencome, Luis E., relief, 282, 586
- Bending moments, see Moments.
- Bending of circular plates confining incompressible liquid, 97
- Bending tests of 2 large-diameter corrugated cylinders with eccentric ring stiffeners, 1506
- Bendura, Richard J., low subsonic static and dynamic stability characteristics of 2 blunt 120° cone configurations, 6893
- Benedict, John A.:  
basic data on economy of—  
Ireland, 5955  
Portugal, 4443
- Benefit series service, unemployment insurance report, 3055
- Benfer, Richard H., Project Pre-Schooner II, apparent-crater studies, 13342
- Bengal, Bay of, sailing directions, 5329
- Bennet, O. L., boll, fiber, and spinning properties of cotton, as affected by management practices, 11945
- Bennett, Gae A., agricultural policies in Western Hemisphere, 17714
- Bennett, Gordon D., analysis of aquifer tests in Punjab region of West Pakistan, 11187
- Bennett, Harold J., iron and steel scrap in intermountain and northwestern Plains States, 16855

- Bennett, Robert L., address, Jan. 28, 1967, 15322
- Bennett, Wm. H., Texas leaf-cutting ant, 15278
- Benson, M. A., general field and office procedures for indirect discharge measurements, 11184
- Benson, Robert E., market trends for western white pine, 14089
- Benthic Polychaeta and Amphipoda of Morro Bay, Calif., 6956
- Benthos, benthic Amphipoda of Monterey Bay, Calif., 2751
- Bentley, N. M., claim, 7619
- Benton Lake National Wildlife Refuge, general information, 9519
- Bentonite, Umiat, unusual montmorillonite, analysis, etc., 13291
- Benzene:
- benzenoid chemicals and products, imports, 17253
  - rings, infrared vibrations, in condensed thiophenes, 8377
- Benzenoid chemicals, *see* Benzene.
- Berber, John S., phthalic and maleic anhydrides from low-temperature lignite tar, 9768
- Berea sandstone, *see* Sandstone.
- Berg, A. L., discussion on cybernetics, 4975
- Berg, Dennis W., groin design, 16521
- Berger, C., study of electrical analogue for electroanalysis, 9591
- Berger, Martin J., stopping power and range tables for protons, mesons, and electrons, 5192
- Bergmann, Barbara R., structural unemployment in United States, 7872
- Bergner, Per-Erik E.:
- compartments, pools, and spaces in medical physiology, symposium, 15959
  - ergodic properties of tracer system, 13337
  - turnover compartmentalization, statistical tracer theory for analysis of whole-system retention data, 12012
- Bering River and Valley, area, geomorphic effects of earthquake, 2370
- Berkeley, Cyril, polychaetes, type-specimens, descriptions, 5310
- Berkeley, Edith, polychaetes, type-specimens, descriptions, 5310
- Berkner, Lloyd V., address, Oct. 7, 1966, 5281
- Berkopec, Frank D., performance of 2 subliming-solid-propellant thruster systems for attitude control of spacecraft, 6884
- Berkshire Hathaway Inc., wage chronology, 14297
- Berlin, Germany:
- East study mission report, 7809
  - western—
  - economic statistics, handbook, 3388
  - establishing business in, 10458
- Bermuda, foreign trade regulations, 9017
- Bermudez, Marie del Carmen, relief, 316, 596, 818
- Bernardini, Albert T., effect of hypobaric and hyperbaric pressure on cell permeability, 7356
- Bernhard, R. K., stress and wave patterns in soils subjected to dynamic loads, 10255
- Bernhaut, Mildred R., scientific information notes, national and international developments, 3853
- Bernstein, Charles, relief, 850, 13778
- Bernstock, William M., bulletin of prosthetics research, 11889, 18246
- Bernzweig, Eli P., legal aspects of PHS medical care, 1582
- Berrier, Bobby L., isentropic plug nozzles, 6892
- Berries:
- bush, production, use, value, 1965-66, by States, 14695
  - frozen, U.S. standards for grades, 13897
  - see also* names of berries.
- Berry, Albert G., jr., relief, 13576
- Berry, Jane, counselling girls and women, awareness, analysis, action, 13968
- Bersamin, Julietta G., relief, 290, 531
- Berson, Minnie P.:
- daily program for child development center, 15204
  - save them young, New York State's pre-kindergarten program, 13962
- Bertin, John J., test times and boundary layer induced property variations in circular shock tube, 5242
- Bertran, Raul E., relief, 10538, 13480, 13738
- Bertsch, Anthony A., defense materials system, 9608
- Beryllium:
- ages of plutonium-beryllium neutrons in tungsten-water media, 1502
  - apparatus for fabrication of americium-beryllium neutron sources prevents capsule contamination, 14366
  - fluorination, kinetics, 12928
  - substrate, film of beryllium fluoride protects against corrosion, 8459
- Beryllium fluorides, film protects beryllium against corrosion, 8459
- Beryllium oxide:
- crucible cast from, impervious to flux and molten metal, 5152
  - status of development of dispersed fuel particles in BeO matrix, 7421
- Beryllium sulfate, hydrates, low-temperature thermodynamic properties, 9777
- BES, *see* Employment Security Bureau.
- BES series, 6199-6200, 12471, 17727
- Bess, T. Dale, light-intensity data of Trailblazer I reentry bodies, 2690
- Bessemer process, digital computers for controlling, USSR study, 1253
- Besser, Jack M., hobby shops, 17194
- Beta particles, beta excited X-ray spectra, compilation, 5789
- Beta rays, absorptiometry with beta excited X-ray sources, 5770
- Bethard, Kimiko, relief, 797, 9221
- Bethlahmy, Nedavia, effect of exposure and logging on runoff and erosion, 9537
- Bethlehem, Pa., area wage survey, 11324
- Bethune, James E., performance of 2 slash pine varieties planted in south Florida, 9543
- Beverages, census of manufactures, industry report, supplement, 8933
- Bezates, Lambrini, *see* Bezates, Theodora.
- Bezates, Theodora, relief, 354
- BI series, 19, 5621, 8816-17, 13207
- RIA, *see* Indian Affairs Bureau
- Bialek, Eugene L., handbook of oceanographic tables, 13024
- Bianchi, Eli E., relief, 13614, 13782, 14898
- Biaxial stress, *see* Strains and stresses.
- Bibionidae, *see* Flies.
- Bibliography:
- acclimatization versus tolerance to stress, 17363
  - aeronautics, 4169
  - aeronautics survey, 10207
  - aerospace medicine and biology, 1442, 2620, 5197-98, 6739, 8444-45, 11434, 12883, 14408, 15519, 16934-935
  - cumulative index, 8443
  - Africa, problems and prospects, 13296
  - Africa, sub-Saharan, 17210
  - agriculture, 3056
  - Air Force Academy Library series, 5689, 10206-207
  - Air Force, 1960 scientific research, 7304
  - air pollution, 2805
  - aircraft noise and sonic boom, 4753
  - algal growth aqueous factors other than nitrogen and phosphorous, 6338
  - American agricultural books and periodicals, 14505
  - Antarctic bibliography, 6621
  - architecture, building and engineering, 13266

# INDEX 1967

## Bibliography—Continued

arms control & disarmament (periodical), 3041  
 Army and Air National Guard, civilian in peace, soldier in war, 5732  
 artificial kidney (periodical), 11718  
 Atlantic community, 15752  
 audiovisual materials, sources, 7912  
 bibliographic list, Federal Aviation Agency, 4753  
 bioastronautics, USSR, 1243  
 black oak, 14105  
 blood chemistry of fishes, 17783  
 brant, contribution toward, 16634  
 brazing and brazing alloys, 2618, 8439  
 California water resources, 1126  
 carbon monoxide, with abstracts, 1589  
 chemical and petroleum plants, investment and operating costs, 14328  
 children who need protection, 1892  
 children's books, 6622  
 children's literature, 5085  
 climate, Vietnam, Republic, 16539  
 color defective vision, diagnostic tests, 17411  
 communications satellites, 11433  
 community planning for health, education, and welfare, 16540  
 compressed air, diving and submarine medicine, 6628-29, 14314  
 cooperation in agriculture, 1954-64, 1517  
 cooperatives, general reading list, 12977  
 crime and delinquency, international bibliography (periodical), 3163  
 duly marketing economics, 13950  
 East Asia, 5526  
 Eastern Europe and USSR, 15763  
 education, 8866  
 education of disadvantaged children, 4709  
 elm spanworm, 2287  
 external research paper, 7144  
 family life and sex education, 6184  
 farm management, etc., 7055  
 ferrocene polymers, 2156  
 fire performance of wood, 14081  
 flame spectroscopy analytical applications, 1800-1966, 8519  
 floriculture and ornamental horticulture, marketing and other economic information, 7885  
 fluid amplifiers, 11400  
 food chains, voluntary and cooperative, 10077  
 food stores, 7112  
 foreign countries, statistical publications, 3350  
 forest conservation, 6363  
 forest fires, Forest Service forest fire research staff, etc., publications, 8052  
 Forest Service outdoor recreation research publications, 12568  
 forest trees, genetics and breeding, 4827  
 furniture retailing, 15732  
 Government research and development reports, abstracts, etc., 3984  
 Government-wide index, 3381  
 grassland research, statistical methods, 10185  
 guidance and counseling, 5689  
 guide for professional reading for officers of Navy and Marine Corps, 17079  
 hallucinogenic drugs, 14072  
 hallucinogens, 12560  
 hardware retailing, 7113  
 high energy propellants, 11431  
 Hispanic Foundation series, 12779  
 historical data on hours and earnings, selected references, 8323  
 hobby shops, 17194  
 housing and community development, films, etc., 11204  
 housing and planning references (periodical), 3402  
 housing and urban planning, 4905  
 hydroelectric power, pumped storage, 14707

## Bibliography—Continued

hydroelectric projects, Bratsk and Krasnoyarsk, Central Siberia, USSR, 8665  
 insect-vascular plant associational studies, 8804  
 intelligence, 7338  
 job printing shop, 15731  
 labor-management relations, 11294  
 labor management relations act, 1947, as amended by Labor-management reporting and disclosure act, 11599  
 labor mobility, 15432  
 lasers and masers, 14407  
 Latin America, paperback books, 12779  
 Liesegang rings, 15590  
 low energy electron collision cross section data, 8521  
 lubrication, corrosion and wear, 2621  
 lunar surface studies, 11432  
 management (excluding personnel), 10228  
 Marine Corps historical bibliographies series, 14310  
 marketing economics research publications, 13944  
 marketing information guide, 3544  
 marketing woody plants and related products, 1708  
 mass spectroscopy, 15961, 17393  
 medical reviews, 15597  
 medical translations (periodical), 3057  
 annual index, 14526  
 mental health evaluation, 5421  
 mental retardation, 4896  
 mentally ill, community care, 1590  
 methodological reports on census, 10382  
 Mexican-Americans, 8282  
 microwave and high-frequency, 17031  
 military pyrotechnics series, engineering design handbook, 1750  
 monetary theory and policy, domestic aspects, 8001  
 MS-222, 8033  
 national forests, 11710  
 Navy training publications for advancement in rating, 11667  
 neural sciences, translations, 17137  
 New England regional economic research and planning, 7871  
 nuclear energy for water desalting, 12014  
 nuclear explosives, civil, industrial, and scientific uses, 5787  
 nucleic acids, 8534  
 nursing care of the aged, 10056  
 nursing in coronary care units, 5452, 11754  
 open space land planning and taxation, 12627  
 PACAF basic bibliographies, 4169, 7338, 8866-67, 10227-230, 11950, 13266  
 personnel literature, 3682  
 personnel management and training, 10230  
 pet shops, 17195  
 phenylketonuria, 5906  
 photography, 8867  
 plastics, 981, 17702  
 ponderosa pine, 17805  
 price list, selective bibliography of Government research reports and translations, 1933  
 professions, employment and training opportunities for women, 1669  
 program analysis techniques, 1824  
 psychology, 10206, 11950  
 public health series, 1589-90, 7083, 8642-43, 11753-754, 13090, 15705  
 radioactive waste processing and disposal, 5786  
 radiobiology, 13343  
 radioisotopes—  
 biological sciences, 10304  
 experiments in high school biology, 5797  
 techniques for instruction in biological sciences, 8910  
 radionuclide standardization, 15682  
 Randall Jarrell materials in collections of Library of Congress, 12780  
 Reclamation Bureau, 8665



**Bibliography—Continued**

red-tide, 9520  
 refuse collection and disposal, 8642, 11753  
 regional economic development, resource materials, 4684  
 religion and mental health, 11719  
 research and development, congressional concern, 4641  
 retail operating costs and ratios, 5493  
 retail store advertising, 5494  
 Ryukyu Islands, 10267  
 science facilities, literature related to planning, design, and construction, 14561  
 second breakdown in semiconductor devices, 18082  
 small business, 1600, 2856, 5493-95, 7112-13, 10077, 15731-732, 17194  
 recordkeeping systems, store and service trade, 2856  
 smoking and health, 15705  
 snow, ice, and frozen ground, 14791  
 social security, 7124  
 soil and water conservation, 8806  
 south Asia, 11832  
 southeast Asia, 13141  
 space exploration, PACAF basic bibliographies, supplement, 10227  
 spinal cord injury, supplement, 5585  
 stimulants and depressants, 14073  
 store location, 1600  
 supplementary compensation, selected references, 5082  
 swimming pools and natural bathing places, 13096  
 technical translations (periodical), 3933  
 temperature measurement, 11584  
 training retail salespeople, 5495  
 tree nut production and marketing research, 13233  
 unemployment program, 1951-66 research studies, 6200  
 urban affairs, selected readings, 8200  
 urban public transportation, 2385  
 vacuum and low-pressure measurements, supplement, 12984  
 Vietnam, 15805  
 vigilance, human and animal, 9753  
 vocational education, 9414  
 walnut and related species, 8108  
 water for peace, 10439, 14872  
 WB/EC series, 16539  
 weather modification, 1944-66, in Soviet Union, 17903  
 women workers, mature, 5597  
 Wood, Robert C., published works, 6416, 11195  
 wood finishing, 14082  
 wood preservation, 14083  
 writing, 17130  
 see also names of departments, etc., issuing lists of publications.  
 Bicarbonates, see Carbonates.  
 Bickart, Charles M., relief, 790, 12332, 16124, 16167  
 Bickford, W. J., signal processor employing synthetic phase isolator, 11397  
 Bidding, see Government contracts.  
 Bidman, Albert D., District of Columbia study on victimization and attitudes toward law enforcement, 13058  
 Biedermann, Konrad, layout, equipment, and work methods for school lunch kitchens and serving lines, 4121  
 Bienlewski, Carl L., mineral industry of Colorado, 8345  
 Bienstock, Daniel, process development in removing sulfur dioxide from hot flue gases, etc., 12331  
 Bifano, William J., solar direct-energy conversion systems operating between 1.0 and 0.1 astronomical unit, 6856  
 Big game, see Game and game birds.  
 Big job ahead, 8663

Big Sandy Creek and Valley, Lincoln, Cheyenne, and Kiowa Counties, Colo., geology and ground-water resources, 11191  
 Big Snowy group, see Mississippian period.  
 Bigcone Douglas-fir, see Fir.  
 Biggs, Archie A., fireplaces and chimneys, 8825  
 Bighorn Canyon National Recreation Area, establish, law, 383  
 Birkman, J. J., foam fractionation of inorganic solutions, 12642  
 Bilello, Michael A., Arctic and subarctic temperature inversions, 4200  
 Bilezikjian, V., parametric analysis and preliminary design of shaft-driven rotor system for heavy-lift helicopter, 116  
 Bilingual Children, Advisory Committee on Education of, see Education of Bilingual Children Advisory Committee.  
 Biller, James C.:  
   housing and urban development notes, 3403  
   urban renewal notes, 4010  
 Billings, Mont., Federal-aid Interstate highway frontage road, justification, Public Roads Bureau, GAO review, 2348  
 Billingsley, C. H., sampling tool to extract cores from baled hay or straw for analysis, 13201  
 Bills (congressional):  
   Agriculture Committee hearings on miscellaneous bills, 709  
   armed services, hearings on miscellaneous bills, 717-718, 720, 723, 942, 2043-44, 2108, 4524, 4526, 10637, 10639, 13696-697, 16311-312, 17593  
   digest, 3206  
   history, 3132  
 Biloxi, Miss.:  
   harbor modification, engineers report—departmental edition, 4730  
   document edition, 4474  
 Binary diffusion, see Diffusion.  
 Bindery workers, examination announcement, amdt., 204  
 Bindweed, field, control method, 14749  
 Bingham, George C., catalog, paintings, exhibition, 18084  
 Bingham, R. T., economical and reliable estimates of general combining ability for blister rust resistance obtained with mixed-pollen crosses, 9536  
 Binocular vision:  
   acuity of adults, by region and selected demographic characteristics, United States, 13099  
   pilot considerations, effect of age on fusion time, 4253  
 Bins, potato storage, 20,000 cwt, arched roof, 13230  
 Bioassay, see Biological assay.  
 Bioastronautics, bibliography, USSR, 1243  
 Biochemistry:  
   and Soviet Minsk-2 computer, Bulgarian study, 4947  
   behavioral model of man, 1967, his chains revealed, 14401  
   biochemical basis of movement of cilia and flagella, structural organization, USSR study, 12696  
   biochemical procedures, 7414  
   inflight biochemical responses utilizing parotid fluid collection technique, determination, 4187  
   nervous system, 4th all-Union conference, 1336  
   protein nutrition, USSR book review, 15405  
   radiation, role of Bulgarian scientists, 1159  
   Soviet research on biochemistry of brain and muscles, 14214  
   viruses, USSR study, 15364  
 Biochemists, examination announcement, amendment, 17453  
 Bioengineering, research and manpower, national workshop proceedings, 15703



**Biography:**

- Academy of Sciences, Latvian SSR, members, 1163
- members of President's Committee on Mental Retardation, 5407
- men and milestones in American agriculture, 2039
- NASA astronauts, space flight team, 11423
- State Department biographic register, 14670
- USSR scientists, 1330
- women of 90th Congress, 14728
- see also* subjects of biographical sketches.
- Biologic fluids, *see* Body fluids.**
- Biological assay:**
  - laboratories, labor-saving devices, 16624
  - meeting, Oct. 7-8, 1965, Albuquerque, N. Mex., proceedings, 5766
- Biological chemistry, *see* Biochemistry.**
- Biological Laboratory, Galveston, Tex., report, 17773**
- Biological Laboratory, Gulf Breeze, Fla., annual report, 14055**
- Biological Laboratory, St. Petersburg Beach Fla., contribution, 12545**
- Biological physics:**
  - Moscow Naturalist Society, Biophysics Section, activity, 4971
  - scuba diving, biologic and physical aspects, 11953
- Biological products:**
  - biological products produced and destroyed in licensed establishments, list, 5619, 15832
  - biological samples, pesticide residues, cleanup, etc., 13200
  - regulations, Public Health Service, 11720
- Biological sciences, *see* Biology.**
- Biological Sciences Department, Hungarian Academy of Sciences, secretarial report, 1269**
- Biological warfare:**
  - antibacteriological defense and decontamination of naval vessels, USSR study, 8248
  - bacteriological weapons and how to defend against them, USSR study, 15412
  - biological weapon, indication, USSR study, 6574
  - decontamination with hypochlorite, 10012
  - defense, Army field manual, 1758
  - field CBR collective protection, Army technical manual, 5740
- Biologists:**
  - examination announcement, 14856
  - discontinuance notice, 16077
  - fishery, examination announcement, discontinuance notice, 16077
  - wildlife, examination announcement, discontinuance notice, 16077
- Biology:**
  - aerospace—
    - bibliography, 1442, 2620, 5197-98, 6739, 8444-45, 11434, 12883, 14408, 15519, 16934-935
    - cumulative index, 8443
    - protons and space travel, 1731
  - agricultural/biological vocabulary—
    - alphabetical list, 17026
    - categorized list, 17025
  - associate training programs, NIH, 5420
  - bases for compiling biological program to study productivity of fresh-water complexes outlined, USSR study, 5008
  - biological catalysts models, USSR study, 14239
  - biological data, tropical Atlantic Ocean, Equalant III, report, 8569
  - biological effectiveness of various types of radiations, USSR study, 5032
  - biological effects of—
    - ionizing radiation, bibliography, indexes, 13343
    - radiation, 5434
    - ultrasound, USSR study, 11268

**Biology—Continued**

- biological field investigative data for water pollution surveys, 1073
  - biological macromolecules study, light scattering method, Rumania, 14234
  - biological oceanography of eastern tropical Pacific, 8038
  - biological sciences—**
    - national program of research (address), 15835
    - radioisotopes, annotated bibliography, 10304
  - biological systems, ionic transport, model membrane studies, 6443
  - Bredin-Archbold-Smithsonian biological survey of Dominica, 5316, 6962
  - control sciences applied, USSR studies, 1322
  - dwarf mistletoe parasitizing true fir in California, 5685
  - electronics application, USSR research, 4970
  - freeze-dry preservation of biological specimens, 6950
  - high school, radioisotope experiments, bibliography, 5797
  - International Biological Program—**
    - support of Congress, etc., hearings, 17612
    - USSR plans, 15380
  - molecular aspects of biological development, 6711
  - new era, USSR comment, 9621
  - program, AEC authorizing legislation, 1968, hearings, 10491
  - problems of biological productivity of terrestrial plant communities, USSR conference, 4968
  - radiation transport and biological effects, special sessions, proceedings, 13314
  - radioisotope techniques for instruction in biological sciences, 8910
  - research—**
    - recent developments, Rumania, 9671
    - reports from Priroda, 16778
  - samples taken during orbital flight, storage problems, 9820
  - simulation, USSR study, 15356
  - thermodynamic equilibrium in prebiological atmosphere, etc., 11426
  - USSR—**
    - biological problems studied by Vityaz research vessel, 11269
    - biological sciences, better coordination of research and practice urged, 6500
    - translations, 14271
    - see also* Germ-free life—Marine biology—Photobiology—Radiobiology—Space biology.
- Biomagnetics, considerations relevant to manned space flight, 16911**
- Biomedicine:**
- biomedical application teams, space application, etc., 15495
  - biomedical monitoring during dynamic stress testing—
    - Flack test, 7360
    - instrumentation and normal values, 7343
    - Levy hypoxia test, 7344
    - maximum exercise tolerance, ergometer, 7361
    - tilt table orthostatic tolerance test, 7362
  - Communist Chinese abstracts, 3115
  - East European abstracts, 3217
  - research in service of man, biomedical knowledge, etc., conference proceedings, 17617, 17654
  - scientists, elections to Academy of Sciences, USSR, 1331

**Biomedicine—Continued**  
translations, bibliography (periodical), 3057  
USSR abstracts, 4025

**Biometry:**  
notes on biometry in medical research, 17284  
repeated measurements on experimental units in 2-way classification, analysis, 7348

**Bionics:**  
and control systems, USSR study, 1323  
bionics and reliability, USSR study, 11251  
contemporary problems and their philosophical significance, USSR studies, 1337  
more Belorussian scientists and engineers needed to train specialists, 1271  
odors, measurement and control, bionic aspects, USSR study, 9652  
second all-Union conference, 1220  
Soviet research, reports, 1259  
USSR research and personnel training, 16773

**Biophysics, see Biological physics.**

**Biosynthesis, controlled biosynthesis, USSR study, 11263**

**Bio-thermal responses to varied work programs in men kept thermally neutral by water cooled clothing, 8423**

**Bipolar current driver for memory circuits, 2627**

**Birch:**  
defects associated with injuries made by *Xyloterinus pollitus* Say, pictorial description, 4833  
paper and yellow birch, germination and growth in simulated strip cuttings, 4849  
Birch Creek, travertine depositing stream, Inyo County, Calif., physical and chemical description, 8171

**Bird, Kermit, speech, June 20-22, 1966, 12458**

**Birds:**  
Anahuac National Wildlife Refuge, list, 11085  
Aransas National Wildlife Refuge, list, 4804  
birds and aircraft on Midway Islands, 1959-63 investigations, 4809  
birds in our lives, announcement and order form, 1565  
breeding bird survey, 12550  
Cape Roman National Wildlife Refuge, list, 17777  
Cross Creeks National Wildlife Refuge, list, 8029  
Delta National Wildlife Refuge, list 17781  
Florida Keys national wildlife refuges, list, 17780  
Imperial National Wildlife Refuge, list, 12547  
Klamath Basin national wildlife refuges, list, 15262  
Loxahatchee National Wildlife Refuge, list, 11080  
McNary National Wildlife Refuge, list, 11081  
Mark Twain National Wildlife Refuge, list, 11083  
Modoc National Wildlife Refuge, list, 11082  
protected by Federal law, list, 11091  
Ravalli National Wildlife Refuge, list, 11084  
role of depressor mandibulae muscle in kinesis of avian skull, 11610  
St. Marks National Wildlife Refuge, list, 11079  
Santa Ana National Wildlife Refuge, list, 17779  
Seedsakee National Wildlife Refuge, list, 11086  
Seney National Wildlife Refuge, list, 17778

**Birds—Continued**  
Tamarac National Wildlife Refuge, list, 15264  
Waubay National Wildlife Refuge, list, 15263  
*see also* Water birds.

**Birefringence, sprayable birefringent coating enables strain measurements on large surfaces, 2680**

**Birmingham, Ala., area wage survey, 14286**

**Birnbaum, Abraham H., interpretation of vertical and oblique photographs, 5750**

**Birth:**  
and fetal death registration, hospital handbook, 11737  
natality statistics analysis, 8662  
natality, vital statistics of U.S., 15716  
records, where to write, 11765  
registration, physicians' handbook, 13088

**Birth control:**  
family planning—  
community action for health, 2167  
programs in developing countries, 8227  
report, 1136

**Bis(2-guanidinoethyl) disulfide, mechanism of action of AET, protection of DNA against ionizing radiation by GED, 5713**

**Bismuth:**  
disposal from national and supplemental stockpiles, report, 14938  
mineral industry survey, quarterly, 3059

**Bisplingholl, Raymond L., address, Sept. 2, 1966, 5280**

**Bitter Lake National Wildlife Refuge, geological mineral resources, 17821**

**Bitter rot, apples, general information, 17320**

**Bitterbrush, measuring seed production on plants with variable crown density, 11122**

**Bituminous coal, see Coal—Coal mines and mining.**

**Bjork, R. L., impact effects as applied to meteoroid hazards, 12855**

**Bjugstad, A. J., cattle in woods or woods in pasture, 14093**

**Black, Cyril E., neutralization in southeast Asia, 2116**

**Black, David S., nomination, hearing, 15161**

**Black, Donald J., crime and law enforcement in major metropolitan areas, 13060**

**Black, Dorothy J.:  
basic data on economy of South Viet-Nam, 7577  
foreign trade regulations of Malaysia, 13453**

**Black, Ralph J., refuse collection and disposal, 8642, 11753**

**Black, William R., heavier loading of watermelons in rail cars and piggyback trailers, 10154**

**Black Bayou:  
engineers report—  
departmental edition, 15224  
document edition, 14930**

**Black body, see Blackbody.**

**Black cherry, see Cherry.**

**Black Hills, southern geology and uranium deposits (series), 12597, 14168**

**Black locust, see Locust trees.**

**Black oak, see Oak.**

**Black Partizan site, archeology, 5499**

**Black Sea, lights and fog signals, list, change, 1538, 5333, 11643, 18190**

**Black turpentine beetles, see Beetles.**

**Black walnut, see Walnuts.**

**Blackberries:  
erect and trailing diseases, description, control, etc., 1681  
growing, 14740**

**Blackbirds, protecting corn from blackbirds, methods, 16637**

**Blackboards, slate, standard sizes, standard of trade, 5285**

**Blackbody, modified device emits high-density radiation, 17995**

**Blackburn, Benjamin B., contested election, report, 12271**

- Blackburn, Maurice, biological oceanography of eastern tropical Pacific, 8038  
 Blackhutt eucalyptus, *see* Eucalyptus.  
 Blacklaton, Slator C., Jr., relief, 13588  
 Blackleg, cattle blackleg, cause, control, etc., 14748  
 Blacklight traps, *see* Insect traps.  
 Blade, O. C.:  
   aviation turbine fuels, 9762  
   burner fuel oils, 16860  
   diesel fuel oils, 1966, 2568  
   motor gasolines—  
     summer, 2569  
     winter, 12811  
 Blades:  
   blade-element performance of 2-stage axial-flow pump with tandem-row inlet stage, 11513  
   rotor, tandem-rotor helicopter, aerodynamic loads and dynamic response, predicting, 13310  
   self-locking, supports work platform, 12906  
   transient blade motions of rotor with flapping and lead-lag degrees of freedom, numerical method for studying, 17010  
   turbine blade loading, advanced concepts to increase, experimental investigation, 12850  
   turbine blade root design concept promises superior alignment, 6782  
   working blade-rings of turbines, etc., friction and leakage losses, 5277  
 Blaha, Bernard J., technique for verifying structural integrity of full-scale segments of launch vehicles at transonic speeds, 6906  
 Blake, Doris H., revision of beetles of genus *Glyptoscels*, 14533  
 Blake, Henry E., Jr., Pederson process adaptation to ferruginous bauxites of Pacific Northwest, 9788  
 Blake, Wilson, stresses and displacements surrounding open pit in gravity loaded rock, 14356  
 Blakley, Earl R., soil survey, Hall County, Tex., 14655  
 Blank, H. Richard, Jr., geologic interpretation of aeromagnetic survey of Iron Springs district, Utah, 11173  
 Blankenship, Ben, agricultural situation, 3002  
 Blankenship, Charles P., extrusion of  $\frac{1}{2}$ - and  $\frac{3}{4}$ -inch-diameter, thin-wall tungsten tubing using floating-mandrel technique, 5250  
 Blankenship, Martha, relief, 835, 13729, 16166, 17491  
 Blast, protection with in-tank valve shutoff, 2645  
 Blast furnaces:  
   industry manpower survey, 17729  
   iron, developing thermochemical model, measurement of rate coefficient for reduction of iron ore pellets in packed bed, 17915  
   iron, thermochemical reduction zone, developing mathematical model, 14334  
   natural gas injection and oxygen-enriched blast operation, 12828  
   pressure drop across fixed beds of anthracite briquettes and blast furnace materials, 11375  
   *see also* Slag.  
 Blasting:  
   grit blasting nozzle fabricated from mild tool steel, satisfactory performance, 6762  
   presplitting rock cuts, controlled technique, 5476  
   *see also* Explosives.  
 Bleaching:  
   effect, in  $ZnS(Co)$  crystals under influence of ruby laser pulses, 9926  
   patent classification definitions, 5369  
   wood, 15282  
 Blenniidæ, *see* Entomacrodus.  
 Blew, J. Oscar, Jr.:  
   comparison of wood preservatives in—  
     Miselsippi, post study, 1967 progress report, 11110  
     stake tests, 15281  
   preservative treatment of fence posts and farm timbers, 10165  
 Blind:  
   aid to the blind and OASDI recipients, comparison between beneficiaries and nonbeneficiaries, 11799  
   computer programmer, translator program converts computer printout into Braille language, 11441  
   District of Columbia register, establish, report, 16382  
   new life for blind, vocational rehabilitation, 17184  
   new vistas for the blind, 2378  
   public assistance money payments to recipients, 4751  
   salaries for selected occupations in services for blind, 2499  
   State agencies, directory, 7220  
   statistical data on blindness, USSR, 2470  
 Blinded Veterans' Association, legislative program, hearings, 9172  
 Blindness:  
   flashblindness—  
     experiment in F-4C flight simulator, 1738  
     F-106B aircraft experiment, 17349  
 Blindness Statistics, Model Reporting Area, *see* Model Reporting Area for Blindness Statistics.  
 Bliss, J. C., tactual perception, 6706  
 Blister rust:  
   growth rate and survival probability of blister rust cankers on sugar pine branches, 14103  
   resistance obtained with mixed-pollen crosses, economical and reliable estimates of general combining ability, 9536  
   *see also* Sweetfern blister rust.  
 Blocker, H. Derrick, classification of Western Hemisphere Balclutha (Homoptera: Cicadellidae), 8547  
 Blocks:  
   concrete—  
     incinerator, building plan, 4124  
     industry, work injuries and accident causes, 16813  
     wave tests of revetment using machine-produced interlocking blocks, 16519  
 Blomstrom, Mitsuo, relief, 15069, 16206, 17510  
 Blood:  
   anticoagulation therapy, laboratory control, 17358  
   artificial, circulation in cats, systemic vascular reactions, USSR study, 11287  
   blood chemistry of fishes, bibliography, 17783  
   carbon dioxide content, electrochemical technique for measuring, 10243  
   cardiac output, etc., of unanesthetized swine, 4186  
   carotid and femoral artery blood flow in hyperthermic cats, 5710  
   cells, airmen who apply insecticides from aircraft may suffer ill-defined effects, 17410  
   cells, permeability, effect of hypobaric and hyperbaric pressure, initial observations, 7356  
   chemistry, *Macaca mulatta* monkey, normal values, 7368  
   clotting studies in submarine crew, serial analysis of clotting mechanism during prolonged submergence, 12790  
   coagulation mechanism, effects of monomethylhydrazine, 17361  
   coronary circulation in normal and pathologic heart, 11999  
   enzyme response on man in oxygen-helium atmosphere, 85

**Blood—Continued**  
 erythrocytes changes in rats trained to hypoxia, USSR study, 1985  
 fibrinolytic, and postmortem tissues, procurement and utilization, 11289  
 fibrinolytic mechanism in-vivo inactivation of antihemophilic globulin by hydrazine, 14771  
 glucose concentration, affects the effects of hydrazine on fat transport, 65  
 Hematological Service of USSR and immediate tasks confronting it, 6584  
 hemophilic, anticoagulant effect, clotting prolonged in canine transmitter, 10244  
 hemostasis and coagulation, 7340  
 influence of long-term lower body negative pressure on circulatory function of man during prolonged bed rest, 1734  
 mathematical methods in interpreting and evaluating proteinogram and their practical significance, USSR study, 12694  
 mean blood hematocrit of adults, 10069  
 oxygen saturation determined by transmission spectrophotometry of hemolyzed blood samples, 16936  
 plasma—  
   dogs, effect of oxygen on sulfhydryl groups, 5712  
   effects of ionizing radiation on concentration of amino compounds, 5714  
   volume response to tilting, effects of bed rest and water immersion, 7345  
 preservation, tasks and problems, USSR study, 1229  
 renal flow, effect of hydrazine, preliminary study, 11967  
 Rh factor, 2817  
 sodium and water excretion and renal hemodynamics during lower body negative, 14770  
*see also* Gamma globulin.  
 Blood banks, laboratory procedures in blood banking, Army technical manual, 5745  
**Blood pressure:**  
   hypertension and heart disease, 3 views, 8658  
   intra-aortic and auscultatory, comparison of simultaneous measurements with pressure-flow dynamics during rest and exercise, 4254  
   monitoring device, automatic indirect, design, etc., 73  
   renal disease and hypertension, Public Health Service cooperative studies, conferences, proceedings, 17160  
 Blood transfusion, *see* Blood.  
 Blood vessels, artificial parts, fact sheet, 11729  
*see also* Arteries.  
 Bloodletting, history, synopsis, 12442  
 Bloomfield, Lincoln P., arms control and limited war in developing areas, 15924  
 Bloomington, Calif., ground water, patterns of subsurface flow, 1118  
 Blowdown, high speed system, provides rapid pressure loss, 8468  
**Blowers:**  
   current industrial reports, 3170, 12070  
   industrial plant equipment handbook, 4674  
 Blowtorches, welding torch and wire feed manipulator, 17993  
 BLS, *see* Labor Statistics Bureau.  
 BLS report series, 2492-95, 5054-55, 8300, 11309, 12768, 14282, 15437, 16812-513, 17890-891  
 Blue collar workers, examination announcement, 12102  
*see also* Government officials and employees.  
 Blue Cross, *see* Health Insurance.  
 Blue Mountains:  
   Oregon and Washington, defect estimation for grand fir, Engelmann spruce, Douglas-fir and western larch, 2289

**Blue Mountains—Continued**  
   summer range, fluctuations in forage quality, 16663  
 Blue Ridge, ground water, 9566  
 Blue Ridge Parkway:  
   extension, report, 16243  
   general information, 13002  
 Blue Shield, *see* Health Insurance.  
 Blue tongue, sheep, incidence, 18  
 Blueberries, dehydrated explosion puffed, new method for preparing, description, 7249  
**Bluestem:**  
   Flint Hills and Osage pasture report, Kansas and Oklahoma, 14692  
   range, common plants of longleaf pine, 2334  
 Blum, Barton M., accuracy of mean-growth estimates made with dial-gage dendrometers, 8079  
**Blunt bodies:**  
   local flow properties and drag coefficients, 18056  
   spherically blunted cones—  
     aerodynamic characteristics at Mach 20, 14488  
     with base flares, aerodynamic characteristics, 1486  
   supersonic gas flow around blunt bodies, 12974  
 Blunt, J. R., gravity independent vapor absorption refrigerator, 14385  
 Blyth, James E.:  
   pulpwood production and consumption in north central region by county, 2337  
   rising pulpwood prices stimulate largest Lake States pulpwood harvest, 14101  
 Board of Education of District of Columbia, *see* District of Columbia.  
 Board of Regents of Smithsonian Institution, *see* Smithsonian Institution.  
 Board of Trustees of Federal Hospital Insurance Trust Fund, annual report, 7601  
 Board of Trustees of Federal Old-Age and Survivors Insurance and Disability Insurance Trust Funds, annual report, 10504  
 Board of Trustees of Federal Supplementary Medical Insurance Trust Fund, annual report, 9056  
 Boards of education, *see* Educational boards and departments.  
 Boards of Review, Judge Advocates General, court-martial reports, holdings and decisions, 4671  
**Boating:**  
   accident reporting, rules and regulations, 9007  
   laws and regulations, safety, etc., 220  
   private pleasure, in national forests of Minnesota, 8068  
   recreational, official Coast Guard guide, 219, 4419  
   recreational, safety, hearing, 17603  
   statistics, motorboat numbering, boating accidents and related activities, 9000  
**Boats:**  
   boat landing, building plan, 39  
   official Coast Guard recreational boating guide, 219, 4419  
**Boatswain's mate:**  
   1&C, Navy training course, supplement, 13025  
   3 & 2, Navy training course, supplement, 13025  
   *see also* Aviation boatswain's mate.  
 Bobb, C. Donald, static stability investigation of sounding-rocket vehicle at Mach numbers from 1.50 to 4.63, 12934  
 Bodies (aerodynamics), *see* Aerodynamics.  
**Bodies of revolution:**  
   ablating bodies in ballistic range, thermal radiation studies, survey, 5234  
   paraboloidal shells of revolution, differential equations of axisymmetric vibration, 17946

Bodies of revolution—Continued  
 pointed slender, turbulent-boundary layer characteristics at supersonic speeds, 18026  
 shells of revolution possessing variable thickness heat protection, stiffness matrix solution, 11514  
 Body (human), *see* Anatomy.  
 Body composition:  
   adult men, 14780  
   changes, during acute starvation, metabolic aspects, 7412  
   effects of diet and altitude on body compartments of rats, 10295  
   military population, Ft. Carson, 1963, body density, fat, and potassium 40, 120  
   urinary creatinine excretion as index of fat-free mass composition in rats, 7415  
 Body fluids:  
   effects of diet and altitude on body compartments of rats, 10295  
   measurement of trace levels of deuterium oxide in biologic fluids using infrared spectrophotometry, 11964  
   microanalysis, automatic, apparatus for, 2646  
 Body temperature:  
   achievement of thermal balance and its maintenance during environmental stress, 1822  
   temperature-sensing telemetry system for rhesus monkeys, 17360  
 Body volume of adult men, 14780  
 Body weight, food and your weight, 14744  
 Boe, Kenneth N., sound wood residue left after experimental cuttings in old-growth redwood, 14106  
 Boehler, Gabriel D., investigation of light-weight structural design techniques for lightweight fans, 117  
 Boehm, Charles F.:  
   addresses, etc.—  
     May 24, 1967, 10456  
     May 25, 1967, 10455  
     Sept. 8, 1967, 16098  
 Boehmites, microdibrous, bonded with molybdenum disulfide, use as dry-film lubricants, 10001  
 Boettcher, Arnold J., ground-water development in High Plains of Colorado, 4893  
 Boeuf Bayou:  
   engineers report—  
     departmental edition, 15224  
     document edition, 14930  
 Bogdanoff, John L., atlas of off-road ground roughness P.S.D.'s, 4195  
 Boggs, Howard L., guide for preliminary design of arch dams, 5479  
 Bogue Inlet:  
   to Moore Inlet, N.C., hurricane survey, engineer report—  
     departmental edition, 2204  
     document edition, 1997  
 Bobannan, Billy:  
   effect of size on bending strength of wood members, 1094  
   flexural behavior of large glued-laminated beams, 8104  
 Bohlin method, *see* Mathematics.  
 Bohr-van Leeuwen theorem, *see* Equations.  
 Bolters:  
   construction, material and strength properties of components, results of ultrasonic testing in practice, 13339  
   forced-flow, single-tube boiler—  
     frequency response, 12952  
     with inserts, frequency response, 18022  
   industrial, industrial plant equipment handbook, 977  
   instabilities due to coupling feed system and subcooled region, 9917  
   power, steel, current industrial reports, 4341, 13395

Boiling:  
   characteristics of wicks, vapor-chamber fin studies, 14379  
   convection boiling inside channels, study, 7430-31  
   film boiling from horizontal wire, laminar flow analysis, 14456  
   film-boiling heat transfer from flat plate, effect of subcooling and radiation, 14453  
   fluid properties and gravity level, effects on boiling in discrete bubble region, 15562  
   heat transfer, and bubble mechanics, in zero-gravity environment, 5164  
   water, in single-tube heat exchanger, pressure drop and heat transfer, 14463  
   *see also* Nucleate boiling.  
 Boiling water reactors, *see* Reactors (atomic).  
 Boise, Idaho:  
   area wage survey, 17897  
   vicinity, tributaries of Boise River, flood control, etc., engineer report—  
     departmental edition, 10959  
     document edition, 10497  
 Boise River and Valley:  
   tributaries, flood control, etc., engineer report—  
     departmental edition, 10959  
     document edition, 10497  
 Boldman, Donald R., heat transfer, in convergence nozzles, with uncooled pipe inlets, 17005  
 Boldt, Robert F., generating random information for experimental decision problems, 4225  
 Boles, Patrick P., wholesale distribution facilities for Huntington, W. Va., 4  
 Boling, Jewell, counselor's handbook, 7922  
 Bolivia:  
   agricultural commodities, agreement, 8723, 11838  
   mineral industry, minerals yearbook chapter, 12798  
   records of Dept. of State, microcopy pamphlet to accompany, internal affairs, 18063  
 Boll, fiber, and spinning properties of cotton, as affected by management practices, 11945  
 Boll weevils, *see* Weevils.  
 Bollen, W. B., primary microbiological succession on landslide of Alpine origin at Mount Rainier, 11119  
 Bolter, J. R.:  
   random-scan display of predicted satellite positions, 9994  
   use of NTDS as satellite display, 14593  
 Bolter, K. H., horizontal machine for testing structural wood elements in tension, 8062  
 Bollworms:  
   aerial dispersal in U.S. and Mexico, 5678  
   corn earworm in sweet corn, control, 14747  
   large-scale field evaluation of electric insect traps to reduce bollworm populations in Reeves County, Tex., 11915  
   moths, ultrasonic speaker for studies of acoustic sensitivity, 4083  
   pink, method of evaluating cotton gins for kill, 10147  
   spiny bollworm, new plant pest, 8840  
 Bolsenga, S. J.:  
   Great Lakes snow depth probability charts and tables, 12776  
   total atmospheric water vapor aloft over Great Lakes basin, 16833  
 Bolshevism, *see* Communism.  
 Bolts and nuts:  
   cable clamp bolt fixture facilitates assembly in close quarters, 15533  
   mixed bolts, nondestructive test method accurately sorts, 2679  
   pneumatic wrench retains or discharges nuts or bolts as desired, 6701  
   single wrench separates nuts from free-floating bolts, 14363

- Bolts and nuts—Continued  
stress distribution near explosively expanded rock bolt anchors, 5126
- Bolz, Henry, Dam and Reservoir, see Henry Bolz Dam and Reservoir.
- Bombardment, high-purity single-crystal silicon with protons, 11534
- Bombay Hook National Wildlife Refuge, general information, 4803
- Bombers, see Airplanes.
- Bombing airplanes, see Airplanes.
- Bond, Deborah T., State labor legislation in 1966, 5052
- Bond, J. A., vaporization of high-temperature potassium, 14391
- Bonding, performance and payment bonds on ship construction contracts, Maritime Administration policy, etc., GAO review, 2350
- Bonding of materials:  
brazing alloy holds bonding strength over wide temperature range, 5207  
dry-film lubricants from molybdenum disulfide bonded with microfibrous boehmite, 10001  
heat transfer and ultrasonic transmission properties, correlation established, 8389  
oxides of high temperature alloys, 10016  
refractory metals by vapor deposition, 14432  
silver plating ensures reliable bonding of dissimilar metals, 11461  
ultrasonic quality inspection of bonded honeycomb assemblies is automated, 2664  
vibrations of hollow elastic cylinder bonded to thin casing of different material, 18048
- Bonds:  
municipal revenue, interest cost effects of commercial bank underwriting, 16592  
open market money rates and bond prices, monthly, 3655  
purchase plans, income tax, laws and regulations, 9596  
sales for public school purposes, 6176  
see also Bail—Savings bonds.
- Bonds of United States, see Government securities—Savings bonds.
- Boner, F. C., floods of June 1964 in northwestern Montana, 15314
- Bones:  
cancer, health information, 17147  
preparation, preservation, and use in plastic surgery of joints, USSR study, 15347  
see also Skeletons.
- Bong Oh Kim, relief, 10725
- Bonin, Joseph M., economic effects of seasonality in OASDHI tax payments, 17203
- Bonner, F. T., responses of 1-year-old cottonwood to increasing soil moisture tension, 14122
- Bonneville, Lake, Weber Delta district, geology and hydrology, 0400
- Bonneville Dam, fish passage report, 13974
- Bonneville Power Administration:  
advance program, 12026  
anniversary of act, take official note, report, 15097  
appropriations, 1967, law, 403  
appropriations, 1968—  
hearings, 12287, 16393  
report, 13678  
generation and sales statistics, 7448, 15982  
programs, briefing session, hearings, 10655
- Bonura, M. S., engineering criteria for spacecraft cabin, atmosphere selection, 16912
- BONUS power station, see Nuclear reactor power plants.
- Bonus system, code of Federal regulations, 11043
- Book lists, see Books.
- Book stores, see Stores.
- Bookbinders, examination announcement, amdt., 204
- Bookcases, wood, executive office, Federal standard, cancellation, 6307
- Booker T. Washington National Monument, general information, 8552
- Bookkeeping, organization at Lugansk locomotive-building plant, USSR study, 1293
- Bookmobiles, from buttermilk to gum log, serving Arkansas River Valley families, 12466
- Books:  
American agricultural, in print, selected list, 14505  
catalog of copyright entries, 12432, 16451  
children's, 1966, list, 6622  
Federal item identification guides for supply cataloging, supplements, 3292  
historic, concerning general agriculture in collection of National Agricultural Library, 8515  
housing and urban planning, 4905  
Library of Congress—  
author catalog, 1393, 3601  
register of additional locations, 16838  
subject catalog, 2529, 3505  
National Library of Medicine, 16th century imprints, 15598  
see also Children's literature—Textbooks.
- Bookstores, see Stores.
- Booms:  
DeHavilland stem, damping behavior, 11539  
gravity gradient, thermal bending plus twist of thin-walled cylinder of open section, application, 15561
- Boone, R. Sidney, paintability of 2 Hawaii-grown woods, 4843
- Boone, W. H., nuclear power sources, 7756
- Booster reactors, see Reactors (atomic).
- Boosters (rocket), see Rockets.
- Boots and shoes:  
footwear, new developments (talk), 4703  
footwear, production by manufacturer's selling price, current industrial reports, 5861  
general repair, technical manual, 13302  
jet shoes, extravehicular space locomotion device, 8483  
shoe industry, opportunities for increasing markets and employment, 2161  
shoes and slippers, current industrial reports, 3169, 8947
- Borax, dispersion in plastic, excellent fire-retardant heat insulator, 8384
- Border Patrol, Immigration and Naturalization Service:  
immigration patrol inspector, careers, examination announcement, 10435  
origin and work, 15319
- Boreholes, deformation methods, deep mine stress determinations, 6676
- Boresighting (radio), see Antennas.
- Borg-Warner Corporation, adjustment assistance case pertaining to certain workers, excerpts from Tariff Commission report to Automotive Agreement Adjustment Assistance Board, 7205, 17257
- Borges Cagnet, Alfredo, relief, 12344
- Boring insects, see names of insects.
- Boris Kidric Institute, spatial distribution of reactor radiation around horizontal channel of RA reactor at Vinca, Yugoslavian study, 6479
- Bormuth, W. D., production of manufactured dairy products, 14699
- Born, J. David, specific gravity of incremental cores from interior Alaska trees, 4835
- Born approximation, comparison of Grynzi-aki and Born cross sections for meta-stable 2s state of atomic hydrogen, 9874
- Borneo, western and northeast coasts and off-lying islands, sailing directions, change, 5330



- Boron, amorphous boron powder recovery and purification, and crystallization purification of boron from residues and scrap, 12017
- Boron carbide, aluminum-titanium hydride-boron carbide composite provides lightweight neutron shield material, 16878
- Boron hydrides, toxicology, 7357
- Borrowing, *see* Loans.
- Borum, Rodney L.:  
addresses, etc.—  
May 11, 1967, 10333  
May 22, 1967, 10334  
June 22, 1967, 10327
- Bosch, Myriam, relief, 273
- Bosque del Apache National Wildlife Refuge: general information, 8027  
geology and mineral resources, 17821
- Boss, R. E., design review for space systems, 14405
- Bost, William E., combined subject and author indexes to radiobiology, bibliographies, 13343
- Bostock, D. J., tabular line-of-balance production control technique, 7433
- Boston, Mass.:  
area wage survey, 5069  
plant relocation and core city worker, 16711
- Boswell, Victor R.:  
commercial growing of carrots, 11932  
growing table beets, 4113  
rhubarb production, outdoors and in, 10174
- Botanic Garden:  
appropriations, 1968, legislative—  
law, 13537  
reports, 10617, 13813
- Botanical gardens, Ukrainian, research gains noted, 14235
- Bothnia, Gulf of, lights and fog signals, 11st, change, 1539, 7005 11645, 18101
- Botrytis rot of bell peppers, 34
- Botswana:  
background notes, 5520  
continued application of certain treaties concluded between United States and United Kingdom, agreement, 11839
- Bottles, plastic, current industrial reports, 3169
- Boulard, Heber D., locating, designing, and building country grain elevators, 1683
- Boulay, Emilie, relief, 257, 803
- Boulder, Colo., laboratories, general information, 16097  
*see also* National Center for Atmospheric Research.
- Boulder County, Colo., geology of Eldorado Springs quadrangle, 11165
- Bouma, D. D., multivariable analysis of mechanics of penetration of high speed particles, 6708
- Boundaries:  
international boundary studies, 1630-33, 2883, 8718, 11829, 17224-225  
studies—  
Burundi-Rwanda, 1632  
Burundi-Tanzania, 1630  
Cambodia-Thailand, 2883  
Chad-Niger, 1633  
Czechoslovakia-U.S.S.R., 17225  
Finland-USSR, 8718  
Hungary-U.S.S.R., 17224  
Israel-Lebanon armistice line, 11829  
Kenya-Tanzania, 1631
- Boundary layer:  
attached and separated at Mach 13.8, on highly cooled, ablating and nonablating models, 12954  
boundary-reflected-disturbance lengths, determination in Langley 16-ft. transonic tunnel, 16991  
control, blowing over flaps, investigation over moving ground plane of transport model, 14477
- Boundary layer—Continued  
edge loadings, effect on vibration of rectangular plates with various boundary conditions, errata, 12919  
laminar separations using Crocco-Lees mixing parameter, analytic method, investigations, 9806  
measurements in accelerated flows near Mach 1, 8497  
nitrogen injection, effects on graphite surface in high-temperature dissociated airflow, 12964  
plane-stress analysis of plate subjected to boundary loads, boundary displacements, etc., 16895  
plasma boundary interactions, 15512  
stagnation-point, with suction and injection in equilibrium dissociating air, 8499  
test times and boundary layer induced property variations in shock tube, 5242  
transition on cooled 7.5° total-angle cone at Mach 10, 18021
- turbulent—  
characteristics of pointed slender bodies of revolution at supersonic speeds, 18026  
heat-transfer measurements on flat plate with attached protuberances, 5232  
investigation at Mach 6 with heat transfer at high Reynolds numbers, 8488  
pressure distribution on oscillating panels in low supersonic flow, 6718  
skin friction, effects of periodic blowing through flush transverse slots on, 1431  
skin friction on 5 swept wings, wake momentum surveys, measurement, 2725
- Boundary value problems:  
asymptotic behavior of solutions of boundary problems for quasilinear differential equations, 11573  
nonlinear, modified quasilinearization, concept for solving, 12941
- Bourne, Charles T., training device developments, 18115
- Boutin, Henri P., relief, 796, 9222
- Bovine tuberculosis, *see* Tuberculosis in animals.
- Bowen, A. J., budget of littoral sands in vicinity of Point Arguello, Calif., 7924
- Bowen, Paul H., solid lubricants for helicopter transmissions, 8897
- Bower, David R., surface soil recovers quickly after burn, 8097
- Bower, Edward C., permit to serve as director of Virgin Islands National Bank prior to obtaining U.S. citizenship, 252, 782, 4497
- Bowers, Robert C., status of research on lubricants, friction and wear, 17082
- Bowes, John X., Santa Clara County Welfare Department, San Jose, Calif., intake and case recording, fact-finding report, 10973
- Bowie County, Tex.:  
explosion in ordnance plant, settlement of claims—  
law, 12158  
reports, 637, 801
- Bowles, Gladys K., potential supply and replacement of rural males of labor force age, 1721
- Bowman, Earl K., bulk handling spring crop potatoes from harvester to packing line, methods and costs, 35
- Bowman, T. E., liquid settling and interface dynamics, 2608
- Bowman, Thomas E.:  
new crustaceans, *Sphaeronellopsis monothrix*, etc., 15605  
pelagic amphipod *Cyphocaris challengerii* in northeast Pacific, 6967
- Box Cars, roller-system to facilitate covering with tarpaulins for fumigation, 13202
- Box tree, growing boxwoods, 5632



- Boxcars, *see* Box cars.
- Boxelder bugs, general information, 17795
- Boxes, fiber, solid, Federal standard, 6312
- Boxwoods, *see* Box tree.
- Boy Scouts of America:
- amateur radio stations, permit operation by participants in 1967 world jamboree—
  - law, 13538
  - reports, 12368, 13665
  - annual report, 9065
  - world jamboree, 6-cent air mail postal card (poster), 13052
- Boyd, Alan S.:
- nomination, hearing, 9310
  - remarks, Nov. 29, 1966, 1950
- Boyd, Majorie E., quantum mechanical calculations of 2d virial coefficients for hydrogen, 8527
- Boyle, J. C., measurement of extremely feeble torques on massive bodies, 2696
- Boyle, James R., mineral industry of Tennessee, 6666
- Boynton, John H., manned 3-pass orbital mission, Mercury-Atlas 7, spacecraft 18, description, etc., 6865
- Brabb, Earl E., stratigraphy of Cambrian and Ordovician rocks of eastcentral Alaska, 6404
- Brahbs, Theodore A., recombination of carbon monoxide and atomic oxygen at high temperatures, 2718
- Brachiopoda:
- Middle Ordovician, from basin ranges, western U.S., 11174
  - silicified Middle Ordovician, from Kentucky, 16697
- Brackett, Jean C., city worker's family budget for moderate living standard, 17894
- Brackish water, *see* Water.
- Bradford, E. W., defense industry bulletin, 3193
- Bradley, Gene E., thousand partnerships, 4722
- Bradley, Johnny R., and others relief, 296, 565, 813
- Bradley, Nell B., disabling work-injury experience of oil industry and natural gas industry in U.S., 16851
- Brady, George A., dewatering anthracite slurry, 15478
- Braham, Randolph L., Israel, modern education system, 6187
- Braille system, *see* Blind.
- Brain:
- biochemistry, Soviet research, 14214
  - cerebral air embolism, basic studies, 12793
  - composition and function studied by Soviet scientists, 8271, 9610
  - diseases effects on recognition capacities studies by engineers for use in computer development, USSR study, 6488
  - human—
  - spectral characteristics of water-soluble protein fraction, USSR study, 12707
  - tumor cells, DNA content, cytospectrophotometric research, USSR study, 12757
  - neuron differentiation in different parts of rabbit brain, USSR cytochemical study, 14221
  - neuronal structure and synapses in brain stem and spinal cord, characteristics and significance in carnivores, USSR study, 12711
  - rats, nitrogen metabolism under impulse accelerations, USSR study, 1167
  - research, Veterans Administration, 8783
  - sciences, translations, 1950-60, bibliography, 17137
  - tumor cells, morphology, using anoptal microscope, USSR study, 12739
  - tumor, oranyl phthalocyanines show promise in treatment of, 12842
- Brain drain, *see* Immigration and emigration.
- Brainard, Robert W., catalog technique for measuring image quality, 7406
- Braithwaite, John G., passive infrared acquisition and tracking system analysis, 5177
- Brakes:
- braking mechanism is self actuating and bidirectional, 2629
  - emergency escape system uses self-braking mechanism on fixed cable, 5223
  - friction, cushions acceleration and vibration loads, 6771
  - hydraulic service systems for automotive vehicles, Federal standard, 6321
- Bram, Ralph A., classification of Culex subgenus Culex in New World, 6953
- Bramante, A. Donald, market factors in Spain, 13459
- Branchiobdellidae, *see* Annelids.
- Brandli, Henry W., natural environment of satellite in synchronous circular orbit, 15883
- Brannigan, R. A., electricity, transmission to vehicles, classification definitions, 18131
- Brant, bibliography, contribution toward, 16634
- Brantley, F. E.:
- iron ore, 5106, 6641
  - iron oxide pigments, 1399
- Brashears, A. D., cotton stripper for harvesting research plots, 3
- Brass:
- mills, scrap and metal consumption and stocks, mineral industry survey, monthly, 3062
  - scrap consumers, mineral industry survey, monthly, 3151
- Brassieres, current industrial reports, 14825
- Bratsk, Russian SFSR, hydroelectric projects, bibliography, 8665
- Braun, Harold, relief, 857
- Brayton cycle:
- high-performance radial-flow gas generator, design and fabrication, 8409
  - internally and externally finned radiators, in space, exploratory study, 8405
  - solar-Brayton system turboalternator, parasitic-load speed control, analog-computer study, 5258
  - turboalternator, static parasitic speed controller, 17004
  - two-spool solar-Brayton system turboalternator, valve-speed control, 5257
- Braze joint quality tested electromagnetically, 16964
- Brazil:
- agricultural commodities, agreement, 5547
  - atomic energy, cooperation for civil uses, agreement, 7167
  - background notes, 7139, 13132
  - Commission for Educational Exchange and financing of exchange programs, agreement, 11837
  - cotton, trends and prospects, 9525
  - defense equipment and materiel, disposition, agreement, 11854
  - foreign trade regulations, 17479
  - income tax convention—
  - hearing, 17651
  - text, etc., 9185
  - income tax legislation, 12133
  - labor law and practice, 11309
  - loan of vessels, agreements, 15788, 15798
  - mineral industry, minerals yearbook chapter, 16857
  - position in world agricultural trade, 17713
  - special study mission, report, 10568
- Brazing, *see* Solder and soldering.
- Bread:
- price study, report, 4521
  - prices, economic report, 4539
  - whole grain or enriched, good choice for thrifty family, food value, use, recipes, 9342

## Breakfasts:

- eat a good breakfast to start a good day, 14745
- school breakfast program for children—closing nutrition gap, 15871
- law, 373
- report, 663

## Breaking sound barriers, 5378

- Breakiron, Philip L., reducing transport damage in top-iced shipments of fresh vegetables in bushel baskets, 5646

## Breakwaters:

- Burns Waterway Harbor, Ind., stability, hydraulic model investigation, 7933
- engineering and design manual, 12475

## Breathing, see Respiration.

- Breathing apparatus, self-contained for measuring carbon dioxide in inspired air, machine test method, 1413

- Breckenridge, F. C., colors of signal lights, selection, definition, measurement, production, and use, 8522

## Bredahl, R. M., reserve marine, 3828

- Bredin-Archbold-Smithsonian biological survey of Dominica, 11612, 14540

- Breeze, R. K., design, fabrication, and feasibility testing of prototype airborne respiration analyzer, 8425

- Breidenbach, A. W., identification and measurement of chlorinated hydrocarbon pesticides in surface waters, 4800

- Bremer County, Iowa, soil survey report, 18213

## Bremsstrahlung radiation:

- angular distribution of thick-target bremsstrahlung which includes multiple electron scatterings, 14466
- calculations, plane isotropic buildup factors, 15565
- electron scattering and bremsstrahlung cross-section measurements, 9811
- electron temperature determination from X-ray continuum radiation emitted from high temperature plasmas, 11681

- Brendel, M., coordinates, use in numerical theory of satellites, 11545

- Brendemuehl, R. H., loss of topsoil slows slash pine seedling growth in Florida sandhills, 14119

- Brennan, Robert, chemical quality of ground water, 4893

- Brenner, Edward J.: addresses, etc.—

- Aug. 6, 1966, 2789
- Dec. 30, 1966, 5372
- May 16, 1967, 10020
- May 31, 1967, 11685
- June 7, 1967, 11689
- Aug. 5, 1967, 14601

- Brenner, F. Cecil, lecture, Mar. 31, 1967, 9946

- Brenza, Arthur D., method of analyzing dynamic data characterized by time-varying frequency spectrum, 16996

- Brest Civil Engineering Institute, general information, 5029

- Brewe, David E., film-transfer studies of 7 ball-bearing retainer materials in 60°R (33°K) hydrogen gas at 0.8 million DN value, 2709

- Brewer, William D., effect of thermocouple wire size and configuration on internal temperature measurements in charring ablator, 6864

- Brewerville, Liberia, housing, potential savings through constructing rather than leasing, USIA, GAO report, 6379

- Brezhnev, Leonid I., speech, Apr. 24, 1967, 9317

- Bricker, Lee A., effect of  $-7G_x$  acceleration on renal excretion of solutes in rabbits, 14776

- Brickman, William W., Denmark's educational system and problems, 9397

- Brickmason, see Masons.

## Bricks:

- concrete, industry, work injuries and accident causes, 16813
- wood-brick tile for paneling, 14133

## Bridge circuits, see Circuits.

## Bridge cranes, see Cranes, derricks, etc.

- Bridge engineers, opportunities in Public Roads Bureau, 1593

- Bridge to your success, opportunities for young engineers in Public Roads Bureau, 18192

- Bridgeport Museum of Art, Science, and Industry, see Museum of Art, Science, and Industry, Bridgeport, Conn.

- Bridges, Benjamin, Jr.: imputed income from owner-occupied housing, 7129

- net worth of aged, 17200

- Bridges, International bridge act of 1967, report, 9272

- see also Bailey bridges—also names of bridges, or bodies of water to be bridged.

- Bridwell, Lowell K.: nomination hearing, 6126

- remarks—

- Oct. 19, 1966, 238
- Nov. 3, 1966, 1953
- Nov. 18, 1966, 1952

- Brief cases, current industrial reports, 3169

- Briefs of accidents, U.S. civil aviation (periodical), 7518, 13014

- Briefs of accidents, U.S. general aviation, small fixed-wing aircraft, etc. (periodical), 3063

- Brigden, Wayne H., miniaturized double-focusing mass spectrometer, 2599

- Briggs, George E., team training, 18109

- Bright, William E., soil survey of Tippah County, Miss., 1612

- Brilhart, G. L., power plants, classification definitions, 18121

- Brill, Daniel H., role of financial intermediaries in U.S. capital markets, 6303

- Brimmer, Andrew F.: addresses, etc.—

- Nov. 18, 1966, 1065
- Nov. 19, 1966, 2265
- Feb. 16, 1967, 6300
- Mar. 21, 1967, 7999
- Apr. 14, 1967, 8000
- Apr. 21, 1967, 9493
- May 17, 1967, 11056
- June 8, 1967, 11050
- June 9, 1967, 11053
- Aug. 3, 1967, 14037
- Aug. 23, 1967, 15249
- Sept. 22, 1967, 16590

- Brines:

- desulfation processing of Great Salt Lake brines, studies, 6688

- disposal costs, Texas, procedures and methods for calculating, 12645

- oilfield, bromide and iodide content, in some Tertiary and Cretaceous formations in Mississippi and Alabama, 11385

- waste from desalination plants, utilization, feasibility study, 14196-197

- Brinkerhoff, Joris M., analysis of selected samples by microwave spectroscopy for trace contaminants collected from space simulator, 5711

- Brinkman, Kenneth A., stand volume equations for shortleaf pine in Missouri, 14094

- Brinkman, Robert E., selected bibliography of unemployment insurance program, 1951-66 research studies, 6200

- Briquets, anthracite, pressure drop across fixed beds, comparison with blast furnace materials, 11375

- Briscoe, C. B.: effects of pruning teak, 12576
- weather in Luquillo Mountains of Puerto Rico, 14130

- Bristol, R. I.:  
harbor, engineer report—  
departmental edition, 17730  
document edition, 17570
- Bristol County, Mass., Taunton quadrangle, geology, 9560
- British Columbia:  
ferries, use for Alaska-bound cargo, hearing, 13851  
sailing directions, change, 13018
- British Commonwealth, *see* Great Britain.
- British Guiana, *see* Guyana.
- British Honduras, mineral industry, minerals yearbook chapter, 14331
- British Isles, *see* Great Britain.
- British Solomon Islands, *see* Solomon Islands.
- Britt, Clarence S., soil and water conservation research in northeastern States, 38
- Broadcasting, *see* Radio broadcasting—  
Radio stations—Television.
- Broadfoot, W. M., 5 years of nitrogen fertilization in sweetgum-oak stand, 2321
- Broadwater County, Mont., geology and igneous petrology, 2367
- Broccoll, caterpillar control in South, 15847
- Broder, D. L., problems in reactor shielding physics, 12972
- Brodnan, Catherine M., establishing business in France, 4431
- Brodsky, Gerald L., cancer chemotherapy abstracts, 3075
- Brogan, Francis A., electronic stethoscope for aircraft use, 11966
- Broilers, *see* Chickens—Poultry.
- Brokaw, Leland D., development of benchmark scales for Air Force officer position evaluation, 5705
- Brokers, mailing list, require registration with Postmaster General, hearing, 10667
- Brombacher, W. G.:  
bibliography and index on vacuum and low pressure measurement, 12984  
ionization vacuum gauges and their performance characteristics, 5290
- Bromfield, Calvin S., geology of Mount Wilson quadrangle, western San Juan Mountains, Colo., 15304
- Bromides, content in oilfield brines in some Tertiary and Cretaceous formations in Mississippi and Alabama, 11385  
*see also* Methyl bromides.
- Bronchitis:  
chronic—  
cigarette smoking effects, 5424  
rehabilitation manual, 14619
- Brooding chicks with infrared lamps, 15857
- Brook trout, *see* Trout.
- Brooklyn Center, Minn.:  
relief—  
law, 14912  
report, 10609
- Brooks, David R., computerized data-reduction technique for Langmuir probe of electron temperature variations in exhaust of magnetoplasmadynamic arc, 78047
- Brooks, Edward M., meteorology of Mars and Venus, 11410
- Brooks, Frank P., gastroenterology abstracts and citation, 3372
- Brooks, Mary T., relief, 9250, 13500, 13562
- Brosé, William P., geology of Umiat-Maybe Creek region, Alaska, 8159
- Brother Amable, *see* Beaud, Louis.
- Brotherhood of Railroad Trainmen, emergency board report, 13966
- Brotherhood Week, *see* National Brotherhood Week.
- Broussard, Florence, chronology of events related to Federal legislation for oceanography, 4550
- Brower, R., scientific photography, 4235
- Brown, Ann M., participation of hospitals in pilot study of hospital discharge survey, 2342
- Brown, Albert E., minimum fuel ascent from lunar surface, 16994
- Brown, Bertha W., apparent consumption of industrial explosives and blasting agents in United States, 15463
- Brown, Emma E., abstracts of U.S. APRO research publications, 7405
- Brown, Gerald A., nomination, hearing, 4651
- Brown, J., Army CKREL topographic map, Barrow, Alaska, 4190
- Brown, James K., forest floor fuels in red and jack pine stands, 2303
- Brown, Lester R., jr., mineral industry of Chile, 12799
- Brown, Lionel A., Pony Creek archeology, 15734
- Brown, Myrtle L., nursing care of the aged, annotated bibliography, 10056
- Brown, R. A., sodium arsenate possible eradicator of fusiform rust infections, 12581
- Brown, R. R., space radiation equivalence for effects on transistors, 14380
- Brown, Richmond F., hydrology of cavernous limestones of Mammoth Cave area, Ky., 1132
- Brown, Robert D., jr., Parkfield-Chrolame, Calif. earthquakes, 9574
- Brown, Sidney E., demand for flowers-by-wire, 10179
- Brown, Stephen C.:  
mineral industry of—  
Belgium, 15467  
Greece, 15468  
Luxembourg, 6656  
Netherlands, 11362  
Switzerland, 8367  
minerals in world economy, 15471
- Brown, Stuart C., analysis of bypass air control system for supersonic mixed-compression inlet, 12946
- Brown, Tillis H., jr., population crisis, hearings, index, 16416
- Brown County, Tex., Fusulinidae from Graford formation and Winchell limestone, Canyon group, Upper Pennsylvanian, 12615
- Brown spot, variation in infection of longleaf pine from several geographic sources, 14118
- Brown Swiss cattle, *see* Cattle.
- Brownian movements, application to statistical mechanics and to quantum communication theory, 8597
- Browning, J. Louis, strengthening community services in low-income neighborhoods, field guide to concerted service, 17840
- Browns Park National Wildlife Refuge, general information, 15265
- Brownsville, Tex.:  
candidate insecticides and acaricides evaluated, 13196  
land purchase by Agriculture Dept.—  
hearings, 16303  
law, 16143  
reports, 13668, 16370
- Browse, *see* Forage plants.
- Bruce, M. Melvin, analysis of first-order polynomial predictor for data compression, 8491
- Bruce, Robert A., North Atlantic trawl nets, 15256
- Brucellosis:  
bovine, eradication in cooperation with States, summary, 3915  
eradication—  
activities in cooperation with States, summary, 3919  
cooperative State-Federal program—  
progress report, 15830  
statistical tables, 11  
national committee, 1967 proceedings, 15830
- Brumberg, Abraham, problems of communism, 3771

# INDEX 1967

- Brungs, William A., Jr., distribution of cobalt 60, zinc 65, strontium 85, and cesium 137 in freshwater ponds, 15681
- Brush:
- brushfield reclamation, reforestation with ponderosa pine, 4844
  - conversion, soil slippage increased, 11120
  - herbicides fail to insure success of brushfield prescribed burn, 6366
- Brushes:
- electrical contact, Federal Item Identification guide for supply cataloging, 6148
  - Federal Item Identification guides for supply cataloging, supplements, 3290
  - grading and sizing apples, 7246
- Bryant, Paul J., low pressure application of orbitron, 16909
- Bryers, Richard W., two-phase metastable flow, 6449
- Bryozoa, *see* Victorella.
- Brzezinski, Zbigniew, remarks, May 22, 1967, 14676
- BSRL, *see* Behavioral Science Research Laboratory.
- Bubbles:
- air, properties at air/sea interface, influence of surface-active material, 17088
  - boiling in water, activation, growth, and detachment from artificial nucleation sites of known geometry and size, 14491
  - mechanics in zero-gravity environment, 5164
- Bucerotidae, *see* Hornbills.
- Buchanan, H. J., orbital investigation of propellant dynamics in large rocket booster, 11517
- Buchanan, Henry, temperature-sensing telemetry system for rhesus monkeys, 17360
- Bucharest, Rumania, Hygiene Institute, 40 years in service of public health, 12723
- Buck, Alan D., investigation of concrete in Eisenhower and Snell locks, St. Lawrence Seaway, 13987
- Buck, Gerald E., study guide for physics 2, high school course, 17687
- Buck Island Reef National Monument, general information, 15609
- Buckley, Donald H.:
- effect of recrystallization on friction properties of metals in single-crystal and polycrystalline form, 15574
  - friction characteristics of single-crystal and polycrystalline rhodium vacuum, 9912
  - possible relation of friction of copper-aluminum alloys with decreasing stacking-fault energy, 8490
  - recrystallization and preferred orientation in single-crystal and polycrystalline copper in friction studies, 8481
  - sliding friction of members of platinum metals group, 15578
- Buckley, John D., oxidation of JT graphite composites, 18053
- Buckley, John E., wages and related benefits, metropolitan areas, etc., 14284
- Buckley, Michael P., relief, 7614
- Buckling, *see* Strains and stresses.
- Buckner, Robert C., fescue foot in cattle, what to do about it, 14750
- Buckner, Russel L., soil survey of Bremer County, Iowa, 18213
- Budapest, Hungary, international fair, displays, 12687
- Buddhism, Soviet view, 2429
- Budget Bureau:
- Federal research and development program, decision-making process, comments by, report, 15001
  - statistical reporter (periodical), 3900
- Budget Concepts, President's Commission on, *see* President's Commission of Budget Concepts.
- Budget examiners, calling all majors for budget careers in Federal agencies, 10431
- Budget Joint Committee, create, report, 10754
- Budget of United States:
- better information for decision-making in Federal budget (remarks), 1060
- 1968—
- August review, hearing, 17562
  - budget in brief, 5805
  - departmental edition, 4256
  - appendix, 4257
  - District of Columbia—
    - departmental edition, 4258
    - document edition, 4482
    - document edition, 4481
    - appendix, 4483  - hearings, 7733, 9301
  - special analyses, 4259
  - planning-programming-budgeting system—
    - hearings, 15158
    - initial memorandum, 16415
    - official documents, 13866
    - print additional copies, report, 15140
    - selected comment, 13867
    - print additional copies, report, 15135
- Budgets, *see* Budget of United States—Budgets (family and personal)—also names of departments, etc.—also other headings beginning Budget.
- Budgets (family and personal):
- city worker's family budget for moderate living standard, 17894
  - guide for young couple, 17318
  - income and budget costs by family type, revised equivalence scale for estimating, 17900
- Budworms:
- moths, ultrasonic speaker for studies of acoustic sensitivity, 4083
  - spruce, 1944-56 outbreak in eastern Oregon, differential effects, 1097
- Bue, Conrad D., flood information for flood-plain planning, 9567
- Buffalo, N.Y.:
- Ansel Wilcox House acquisition, etc. law, 422
  - area wage survey, 11311
- Buffers:
- field effect transistors improve buffer amplifier, 17961
  - SPAD formatter, buffer interface between satellite prediction computer and display, 8593
- Bugbee, Robert E., revision of chalcid wasps of genus *Eurytoma* in America north of Mexico, 8536
- Bugg, Frank M., low-speed tests of all-flexible parawing for landing lifting-body spacecraft, 11550
- Bugs, *see* names of bugs.
- Building:
- building a better America, 16709
  - concrete masonry for cabins, building plan, 5664
  - construction—
    - activities of United States, 1965-66, in Viet Nam, GAO report, 11159
    - bids, quality estimates prepared for solicitation, GAO review, 14152
    - construction and architect-engineering contracting services for AEC work, guide, 12350
    - contracts, Defense Dept. awards, need for compliance with truth-in-negotiations act of 1962, GAO report, 12588
    - educational facilities, guide to Federal financial assistance programs, 10931
    - efficiency and economic reform, USSR, 4977
    - expenditures of State and local governments, 5891-93, 10384, 16033
    - facilities for health research, etc., Public Health Service grants and awards, 11755

**Building—Continued**

construction—continued  
 know the soil you build on, 11927  
 projects, inspection controls over concrete placements, Public Buildings Service, GAO review, 11153  
 radiation-safe structures investigated, USSR study, 6523  
 construction reports—  
 quarterly public, 5891-93, 10384, 16033  
 residential alterations and repairs, 5850  
 construction safety, site clearing, 17887  
 fire resistant construction of home, farm buildings, 15849  
 hardware, Army technical manual, change, 107, 10271  
 home and farm, selection and use of wood products, 7264  
 home construction, publications, price list, 7057  
 items on construction, USSR articles, 6481  
 large scale maps for construction planning, requirements, Hungary, 4981  
 library services and construction act, extend and amend—  
 law, 1135  
 report, 16298  
 materials, Federal item identification guides for supply cataloging, supplements, 3288  
 outlook for homebuilding and 1967 economy (remarks), 7570  
 PACAF basic bibliography, 13266  
 permits, 3135-36, 8937, 14818  
 housing authorized, 3135, 8937, 14818  
 summary statistics, 3136  
 problems of science of production engineering, USSR study, 2432  
 publications available from Division of International Affairs, HUD, 8205  
 science facilities, planning, design, and construction, literature, list, 14561  
 USSR industrial development, translations, 4017  
 see also Construction industry.  
 building communities with new jobs, 2159  
 Building export markets for U.S. farm products, 6361  
 Building for clean water, 8010  
 Building machinery:  
 construction machinery, current industrial reports, 3170, 5857, 17430  
 Federal item identification guides for supply cataloging, supplements, 3285  
 USSR industrial development, translations, 4017  
 Building management officers in Veterans Administration hospitals, nationwide, 18249  
 Building science series, 15584, 18075  
 Building trades, union wages and hours, 14301  
 Buildings:  
 concrete structural design, Army technical manual, 7391  
 construction of radiation-safe structures investigated, USSR study, 6523  
 foundation design, procedures, emergency construction, Army technical manual, 10276  
 Historic American Buildings Survey selections, 11616  
 historic American, Georgetown commercial architecture, Wisconsin Ave., northwest Washington, D.C., 11616  
 historic sites and buildings, national survey, prospector, cowhand, and sodbuster, historic places associated with mining, etc., in trans-Mississippi West, 13008  
 load assumptions, Army technical manual, 108  
 prefabricated structures, Federal item identification guides for supply cataloging, supplements, 3288

**Buildings—Continued**

static structures, classification definitions, 13044  
 wood structural design, Army technical manual, 10273  
 Buildings, see also Apartment buildings—  
 Public buildings—also names of buildings.  
 Bullett, Ernest, relief, 264, 547  
 Buis, Gabe R., application of Lyapunov stability theory to some nonlinear problems in hydrodynamics, 16915  
 Bulgaria:  
 Academy of Agricultural Sciences, new members and corresponding members, 1205  
 Academy of Sciences—  
 history and achievements, 6557  
 Vice President Vladimir Georgiyev interviewed, 4991, 6480  
 analytical chemistry, current status and prospects for development, 1231  
 claims of American nationals, timely determination, hearing, 12300  
 claims of inhabitants, payment, hearing, 732  
 clinical observations of individuals contaminated by pinacolic ester of methyl-fluorophosphine acid, 1230  
 Communist Party, and development of natural sciences, 9th congress, 2465  
 hydrometeorological service tasks discussed at 9th Congress of Bulgarian Communist Party, 11253  
 industrialization over 2 decades reviewed, 15424  
 mineral industry, minerals yearbook chapter, 6645  
 new pay scales for scientific and technical workers, 1303  
 officials, 1966 directory, 4934  
 organizational fundamentals, principles and standards of party life, 6566  
 pharmaceutical development, 15391  
 physics, status and perspectives, 16758  
 regulations for setting up socialist brigades for technical progress, 12668  
 scientific and technical progress, 1967 program, 6494  
 scientific organizations, decrees on operating under their own accounting systems, 5030, 6586  
 scientific research, problems of coordinating, 2435  
 scientists' role in radiation biochemistry, crystal chemistry and cybernetics, 1159  
 study mission report, 7809  
 veterinary medicine, problems, 1208  
 Bulgarian State Economic Association for Computer and Organization Technology, general information, 9620  
 Bulgirin, E. H., veneer yields from Lake States, quaking aspen, 1095  
 Bulgur, see Wheat.  
 Bulkheads, composite fabrication development, 6752  
 Bulletins, see Farmers' bulletins—also names of departments, etc., issuing bulletins—also subjects.  
 Bulls, Harvey R., Jr., exploratory fishing and gear research, 2275  
 Bullock, J. Bruce, price spreads for pork, 4126  
 Bulls, DH1A sire summary list, Ayrshire, Guernsey, etc., 7245  
 Bumpers, ballistic limit of double-walled meteoroid bumper systems, 9893  
 Bunchgrass, ponderosa pine-bunchgrass range in Colorado, cattle grazing effects, 14764  
 Bundy, William P., address, Aug. 15, 1967, 17220  
 Bunker oil, see Fuel oil.  
 Bunyan, Jack L., comparison of financial operating data of affiliated food wholesalers, 4123

# INDEX 1967

- Buoyancy, combined with shear, effects on weak homogeneous turbulence, 11542
- Bur, Thomas R., explosives in rock, 5124
- Bur oak, *see* Oak.
- Burbaak, Jeanne:  
plate materials of lead-acid cell, anodic oxidation of  $PbSO_4$ , etc., 11672  
refractometric sensing of  $H_2SO_4$  specific gravity in lead-acid cell operation, 18112
- Burch, Franklin W., cartographic records of American Expeditionary Forces, 1917-21, preliminary inventory, 14508
- Burdick, Lawrence T., performance, story of the handicapped, 3680
- Burgess, Ernest M., immediate postsurgical prosthetics in management of lower extremity amputees, 13171
- Bur-Ghelula, Somalia meteorite, composition, 13089
- Burgin, Vera E., decisions of Department of Interior, 17845
- Burk, Sanger M., jr., static aerodynamic characteristics of 3 ram-air-inflated low-aspect-ratio fabric wings, 17007
- Burke, J. E., simulator evaluations of advanced integrated display and control systems, 14374
- Burkham, D. E., hydrology of Cornfield Wash area and effect of land-treatment practices, Sandoval County, N. Mex., 6412
- Burkig, Valerie C., thermal absorption in seeded gases, 12866
- Burleson, W. E., mineral industry of New Mexico, 6661
- Burley tobacco, *see* Tobacco.
- Burlington, Vt., area wage survey, 11323
- Burma:  
background notes, 14664  
capsule facts for Armed Forces, 15923  
mineral industry, minerals yearbook chapter, 2550
- Burmeister, Louis C., NASA contributions to advanced valve technology, 15518
- Burmester, B. R., avian leukosis complex, 50
- Burner fuel oil, *see* Fuel oil.
- Burners, *see* Incinerators.
- Burning of land:  
effects of slash burning on conifer regeneration in southeast Alaska, 4834  
forested loess soils after repeated prescribed burns, properties, 8091  
herbicides fail to insure success of brush-field prescribed burn, 6366  
prescribed burning improves Piedmont loblolly pine seedbeds, 12582  
slash-burn agriculture among mountain tribes of central Vietnam, 14246  
surface soil recovers quickly after burn, 8097
- Burns, Anne, turbulence in clear air near thunderstorms, 6222
- Burns, B., exploratory development of radio-tracer propellant gauge, 12016
- Burns, Rowland E., explicit solution for Lagrange multipliers on singular subarc of optimal trajectory, 16982
- Burns and scalds:  
active infusion therapy for patients with deep extensive burns, USSR study, 14275  
retinal burns from low-yield nuclear detonations, threshold distances, 69
- Burns Waterway Harbor, proposed breakwater, stability, hydraulic model investigation, 7933
- Burnt River and Valley, Oregon, groundwater reconnaissance in area, 14182
- Burrell, M. O., plane isotropic buildup factors for bremsstrahlung calculations, 15565
- Bursik, Joseph W., pseudo-sonic velocity and pseudo-Mach number concepts in 2-phase flows, 2712
- Burt, Eddie C., efficiency of flail-type machine in destroying cotton squares, 7242
- Burt, Stanley W., grading and sizing apples with brushes, 7246
- Burton, B. L., mass rearing fall armyworm, 8805
- Burton, Robert V., fluid state hydraulic damper, 10286
- Burton, S. F., small nuclear power plants, 5769
- Burt, Everett J., jr., plant relocation and core city worker, 16711
- Burundi:  
background notes, 11815  
capsule facts for Armed Forces, 15908  
labor conditions, 6618  
Rwanda boundary, study, 1632  
Tanzania boundary, study, 1630
- Busby, Douglas E.:  
biomagnetism, considerations relevant to manned space flight, 16911  
clinical space medicine, 14399
- Busemann, A., geometric theory of optimum disorbit problems, 8427
- Buses, *see* Motorbuses—School buses.
- Bush, Joseph C.:  
industry wage survey—communications, 6604  
laundry and cleaning services, 14298  
synthetic fibers, 8317  
textile dyeing and finishing, 2501
- Business:  
activist approach to Government-business relations (address), 10327  
administrative management course program, topics, 1598, 7109  
aids, overseas investment, 1152  
American business is hiring Job Corps graduates, 2162  
balance of payments and business outlook in United States (remarks), 5949
- BDSA, how it works with business for business, 143
- business-Government relations (addresses), 1937, 7569, 9010, 16092
- business-Government, their interdependence (remarks), 16093
- Business Opportunity-Federal Procurement Conference, guidelines for program, 8923
- census, 1963—  
major retail centers, area statistics, bound volume, 1832  
retail trade area statistics, 10339-340  
bound volume, 151  
retail, wholesale, services, bound volumes, announcement and order form, 7453  
retail, wholesale, services, bound volumes, announcement and order form, 7453  
selected services subject reports, bound volume, 8932  
special reports, 4270, 5816-17  
wholesale trade subject reports, bound volume, 7459
- census publications, price list, 7056
- Commerce Department primary Government agency responsible for dealing with problems (address), 142
- commercial firms, technology acquisition channels and NASA dissemination program, 14375
- conditions, national summary, 3600
- county business patterns—  
bound volumes—  
Alabama-Illinois, 17425  
Indiana-Missouri, 17426  
Montana-Oregon, 17427  
Pennsylvania-Wyoming, 17428  
U.S. summary, 17424
- CBP series, 168-175, 1859-71, 4306-21, 5851, 7475, 10844-351, 12042-65, 13365-385, 14819-824, 15987, 17424-482  
announcement and order form, 5852  
U.S. summary, 7475, 15987
- creative partnership with Government for balanced economy (address), 9012
- credit and assistance, code of Federal regulations, 11034



**Business—Continued**

cycle developments, report, 3067  
 delivers goods to marketplaces of world  
 in final analysis (remarks), 240  
 doing business with—  
     Eastern European countries (address),  
     2416  
     Federal Government, guide, 1104  
     enterprise statistics, 1963, preliminary re-  
     ports, 3241  
 establishing in—  
     Belgium, 4435  
     Chile, 1943  
     East Africa, 4444  
     Ethiopia, 13465  
     Federal Republic of Germany and West  
     Berlin, 10458  
     France, 4431  
     Greece, 9018  
     Iran, 13467  
     Italy, 17475  
     Japan, 232  
     Netherlands, 12138  
     Peru, 231  
     Taiwan, 10462  
     Thailand, 13464  
     United Kingdom, 17476  
 foreign firms, sources of credit informa-  
 tion, 15340  
 foreign practices, 9602  
 Government-business relations component  
 in your marketing mix (address), 10329  
 income tax returns, statistics, 6461  
 indexes, monthly, 3068  
 Indian development, program, 2388  
 international, publications, checklist, 6467,  
 15339  
 living with Government creatively (ad-  
 dress), 10454  
 loans, revision in quarterly survey of in-  
 terest rates, 11059  
 Navy prime contractors, selling to, direc-  
 tory, 17100  
 outlook and national economic policy  
 (remarks), 13453  
 overseas business reports, 229-233, 1941-  
 47, 3666, 4431-46, 5351-56, 7573-80,  
 9013-20, 10458-463, 12132-138, 13455-  
 466, 14880-882, 16100-108, 17474-482  
 private enterprise and the city (address),  
 9580  
 private enterprise and United Nations  
 development program, how to bid on  
 special fund projects, 4262  
 public regulation, Treasury view (re-  
 marks), 11884  
 publications, price list, 5418  
 SBA's local development company loans,  
 economic growth at community level,  
 1599  
 service checklist, guide to Commerce Dept.  
 publications, weekly, 3069  
 small business—  
     AID circular, 3004  
     Association and Industry Management  
     Service for Small Business, general  
     information, 15729  
     bibliographies, 1600, 2856, 5493-95,  
     7112-13, 10077, 15731-732, 17194  
     corn marketing by Commodity Credit  
     Corporation, impact, report, 668  
     crime protection insurance, contribu-  
     tions of science and technology, 16437  
     displaced, economic injury disaster  
     loans, management and technical aid,  
     14643  
     distribution problems, hearings, 7817  
     print additional copies, reports, 916,  
     2030  
     drug industry, problems, hearings, 12317  
     dry cleaning, starting and managing,  
     5497  
     financial assistance programs of SBA,  
     review, 16439

**Business—Continued**

small business—continued  
 Government activities affecting, report  
 of Attorney General on problems of  
 displacement under programs of pub-  
 lic improvement, 4631  
 how to obtain Government contracts and  
 subcontracts, 7110  
 impact of crime—  
     hearings, 12428  
     report, 16365  
 impact of tax exempt foundations,  
 hearings, print additional copies, re-  
 ports, 13653, 13820  
 investment act amendments of 1966—  
     law, 483  
     report, 4588  
 investment act amendments of 1967—  
     hearings, 10820, 15020  
     law, 17549  
     reports, 12391, 14961, 14982, 16261  
 investment act, text and related tax  
 matters, 9330  
 investment companies, investigation,  
 hearings, 10845  
 investment company program—  
     examination function of SBA, GAO  
     review, 16675  
 review, hearings, 2062  
 investment program of SBA, report, 4509  
 management series, 2857, 13118  
 pooling defense production, research  
 and development, 5496  
 problems in urban areas, report, 4512  
 problems in smaller cities and towns,  
 hearings, 10678  
 problems, investigation, authorization,  
 report, 4610  
 problems of tool and die industry and  
 associated problems of manufactur-  
 ers and distributors of machine tools,  
 hearings, 2061  
 products list circular, new products de-  
 velopment, 3775  
 protection act of 1967—  
     law, 17549  
     reports, 14961, 14982, 16261  
 regional export industries and institu-  
 tions over next decade, potentials and  
 problems of developing, hearings,  
 17678  
 regulatory and enforcement agencies,  
 activities relating to, report, 4513  
 retail, operating costs and ratios, bibli-  
 ography, 5493  
 role in air transportation industry,  
 report, 4511  
 select committee to conduct studies,  
 etc.—  
     creating, report, 4518  
     expenses, report, 7679  
 small business and labor surplus area  
 specialists, Defense Dept., list, 7866  
 starting and managing series, 5497,  
 8679, 15733  
 status and future, hearings, 16440,  
 17679  
 subcontracting and set-aside programs,  
 report, 4510  
 tax guide, 2413  
 vending machines, starting and manag-  
 ing, 8679  
 special current business reports (series),  
 3573  
 statistics, Federal reserve chart book,  
 3315  
     historical supplement, 16591  
 statistics, weekly, 3070  
 survey of current business—  
     monthly, 3925  
     weekly supplement, 3070  
 taxation, key factor in decisions, 1598  
 textile program, unique approach in busi-  
 ness, Government relations (address),  
 10470  
 ways farmers do business, 2229



# INDEX 1967

Business—Continued  
 your business partner, transportation (remarks), 9751  
 Business and Defense Services Administration:  
 BDSA looks at domestic aluminum situation (address), 5806  
 functions and programming philosophy (remarks), 10334  
 how it works with business for business, 143  
 mobilization programs, hearings, 13543  
 official texts, 3054  
 press releases, 3706  
 publications, list, 1827  
 Business consolidations:  
 cement industry, vertical mergers, enforcement policy, 4799  
 retail grocery store companies, 2172  
 Business Economics Office, press releases, 3707  
 Business men:  
 American, what will Government be asking businessmen to do in respect to nation's balance of payments in 1967? (remarks), 237  
 credit, moderation today means progress tomorrow (address), 144  
 Defense Dept. small business and labor surplus area, specialists designated to assist, list, 7866  
 guide to specifications and standards of Federal Government, 4885  
 how to do business with Federal Government, guide, 1104  
 interchange of young executives between Government and business (address), 17469  
 Kennedy Round impact (address), 18219  
 State Dept. guide to key officers of Foreign Service posts, 3462  
 Busing kids to suburbs, 10928  
 Buss, Keen, interspecific hybridization of esocids, etc., 12551  
 Busse, Jon R.:  
 Aerobee 150 propulsion failure, 6851  
 NASA Aerobee sounding rocket launchings, 15554  
 Bussey, Ellen M., colored minorities and present British policies, 9747  
 Butane, octafluorocyclo-, use as refrigerant in saline water conversion by freeze separation, 12644  
 Butcher, Stanley J.:  
 job hazard analysis, 14280  
 preventive maintenance for safety, 8293  
 promoting worker interest in safety, 8288  
 safe working surfaces, 8294  
 Butler, C. O., rail impact testing on long travel shock mounts, 14805  
 Butler, Joseph, or heirs, relief, 610  
 Butrum, Ritva, relief, 15072  
 Butt Mountain, Clinton hematitic sandstone deposits in area, 12819  
 Butte County, Calif., fire hazard inspection procedures, evaluation, 14109  
 Butters:  
 futures, commitments of traders, 3112  
 futures trading and open contracts, 3367, 3369  
 Butterflies:  
 genus *Calycoptis* Scudder (*Lycaenidae*: *Theclinae*), preliminary revision, 5309  
 new genus *Calystryma*, etc., 14537  
 Buttermore, Paul M., petroleum refineries in United States and Puerto Rico, 15472  
 Butylthiophene, infrared vibrations (cf benzene rings in condensed thiophenes), 8377  
 Buyers, see Purchasing agents.  
 Buying, see Purchasing.  
 Buzbee, William A., relief, 278, 809  
 BW, see Biological warfare.  
 BWR (boiling water reactor), see Reactors (atomic).  
 By the people, for the people, 5375  
 Byers, Harry E., relief, 324, 819

Byurakanskaya Astrophysical Observatory, general information, 1198

## C

C.A.B., see Civil Aeronautics Board.  
 C&MS, see Consumer and Marketing Service.  
 C & S Express, Inc., motor carrier accident, 16873  
 C.C.C., see Commodity Credit Corporation.  
 C.E.R.C., see Coastal Engineering Research Center.  
 C.F.S. series, 1074-75, 3024, 3073, 3335-36, 3338, 3363, 3378, 3386, 3530, 3533, 545-46, 3553, 3564, 3621, 3628, 3638, 3836, 3876, 3884, 3934, 4038, 8013-18, 8502-13, 11072-74, 12540-544, 14054, 16610-618, 17769-771  
 C.R.R.E.L., see Cold Regions Research and Engineering Laboratory.  
 CA series, 8693, 10157, 17301  
 CAB, see Civil Aeronautics Board.  
 Caballot, Felix C., relief, 12339, 16210  
 Cabbage, caterpillar control in South, 15847  
 Cabeza Prieta Game Range, mammals, list, 11089  
 Cabinets, see Telephone cabinets.  
 Cabins, concrete masonry construction, building plan, 5664  
 Cables:  
 cable TV, requests filed under FCC rules, 3269  
 communication lines, USSR book excerpts, 15392  
 Federal item identification guides for supply cataloging, supplements, 3287  
 fixed, self-braking mechanism used by emergency escape system, 5223  
 see also Connectors (electric)—Electric cables—Submarine cables.  
 Cacao:  
 clone collection of Agriculture Dept., description, 10148  
 foreign agriculture circulars, 3345  
 Cache Creek, drainage basin in coast ranges west of Sacramento, Calif., sediment transport, 11181  
 Cachuma, Lake, elimination of stratification, progress report, 11183  
 Cactus, plant bug genus *Hesperolabops* Kirkaldy, etc., revision, 14539  
 Cactus Drilling Corp., oil and gas lease, reinstate, 530, 12324  
 Caddis flies, see Flies.  
 Cadets, see Air Force Academy, Colo.—Coast Guard—Coast Guard Academy, New London.  
 Cadigan, Robert A., petrology of Morrison formation in Colorado plateau region, 12613  
 Cadmium:  
 abraded cadmium-plated cable connectors repaired by conversion coating, 6746  
 mineral industry survey, quarterly, 3071  
 use of steel and tantalum apparatus for molten Cd-Mg-Zn alloys, 8397  
 Cadmium sulfide:  
 film cell, mechanism, 6889  
 spectrum, effect of optical radiations and water vapor on trapping, 14455  
 Caffey, Eugene M., antipsychotic, anti-anxiety, and antidepressant drugs, 2962  
 Caffisch, Frank, despatches from U.S. consuls in Matamoros, pamphlet, 18060  
 Cages, cylindrical screen, for rearing bark beetles, 14114  
 Cages (bearing):  
 high-temperature materials, evaluation, 5274  
 Cagle, Caroline H., changes in time and savings deposits, 11049, 14039, 16589  
 Cahn, Patricia L., American education, 3028  
 Caignet, Alfredo Borges, see Borgea Caignet, Alfredo.  
 Cain, Dorothy S., infrared spectra of elastomers, 15636

Cain, Stephen M.:  
 low doses of acetazolamide to aid accommodation of men to altitude, 1736  
 oxygen deficit incurred during hypoxia, relation to excess lactate, 7355  
 tissue oxygenation during hemorrhage, 15895  
 Caisson disease, *see* Aeroembolism.  
 Calanoida, *see* Copepods.  
 Calcasieu River and Valley, Gulf outlet, navigation maps, 8383  
 Calcium:  
   concentration related to parotid fluid flow rate, 10239  
   mobilization resulting from conditions of inactivity in *Macaca irus* monkeys, study, 5707  
   parotid fluid, flow rate effect on level, 7363  
   serum ionic, measurement by use of specific ion electrode, 13271  
 Calcium carbonate, Birch Creek, travertine depositing stream, Inyo County, Calif., physical and chemical description, 8171  
 Calcium fluoride, ionic conductivity, 6866  
 Calcium isotopes, Ca 43, differential cross sections for ( $d, \alpha$ ) reaction on scandium 45, 16989  
 Calcium sulfate, precipitation investigation, final report, 14198  
 Calculating machines:  
   current industrial reports, 8942, 10356, 16000  
 Calculations, *see* Numerical calculations.  
 Calculators:  
   stress, speedily converts strain data, 12908  
   veterans benefits, 6045  
 Calculus of variations, *see* Functional analysis.  
 Caldera, *see* Craters.  
 Caldor, Sellna, market indicators for Asia and Oceania, 9013  
 Caldwell, Joseph M., coastal processes and beach erosion, 10953  
 Caldwell, Ralph D., relief, 255, 561, 800  
 Caldwell, Warren W., Black Partizan site, 5499  
 Caldwell County, Ky., soil survey report, 8695  
 Calendar of events in Library of Congress (periodical), 3072  
 Calendars, Air Force libraries, buying calendar for annual publications, 8859  
 Calendars (of business), *see* Court of Claims—House of Representatives—Senate.  
 Calif. *see* Calves.  
 Calhoun, Willis A., metallurgical testing of Hawaiian ferruginous bauxites, 11374  
 Calibration:  
   analog to digital encoders, analysis, 9891  
   calibrating ultrasonic test equipment for checking thin metal strip stock, 12832  
   calibration and use of dosimeters, USSR studies, 6565  
   current meter performance, laboratory determination, 4729  
   divider, high voltage potential, calibrated by simple device, 5145  
   dynamic, detectors for remote sensing systems, 9809  
   high voltage facility, design and operation, 5292  
   microphones at high sound pressure levels, 16966  
   pressure transducers, automated tester permits precision from 0 to 1050 psi, 15493  
   rectilinear accelerometer possesses self-calibration feature, 1453  
   services of National Bureau of Standards, inserts, 8518, 9937-39, 12980, 15585-587, 17032  
   simulation, liquid-hydrogen turbine-type flowmeter, using high-pressure gas, 5251  
   spectrum analyzers, means for rapid method, 14443

Calibration—Continued  
   static calibration of ejector unit for simulation of jet engines in small-scale wind-tunnel models, 6899  
   system for more complete calibrations of dynamic-pressure transducers, 9854  
   volume-ratio calibration system for vacuum gauges, 6802  
 Calibrators, pressure switch, design concept, 6763  
 California:  
   air transport of strawberries, factors affecting market quality, 1966 spring shipments, 1704  
   Arizona boundary compact, consent of Congress, report, 4499  
   black oak, increasingly valuable species, bibliography, 14105  
   burrowing aconitine anemone, new species, 6952  
   census of agriculture, 1964, State and county statistics, 17442  
   census of mineral industries, 1963 area statistics, 5823  
   central and northern, water pollution, hearings, 15035  
   central, petrology of sediments underlying areas of land subsidence, 12607  
   climatological data, 3096  
   coast pilot supplement, 5944  
   coastal basins between San Francisco Bay and Eel River, surface water hydrology, 15315  
   collective bargaining groups for poultry feed prices, 7944  
   commercial forest area and timber volume, 4859  
   county business patterns, 4307, 13365  
   dwarf mistletoe parasitizing true firs in California, biology and pathology, 5685  
   electric rate book, 14027  
   elimination of stratification at Lake Cachuma, progress report, 11183  
   forest recreation sites, accidents caused by hazardous trees, 11125  
   highway safety study, Operation 86, joint engineering-enforcement project report, 1594  
   landings, fish and shellfish, 3073  
   low temperature reaction zones and alpine ultramafic rocks, 17817  
   mineral and water resources, 2124  
   mineral industry, minerals yearbook chapter, 6646  
   national forests—  
     areas of limited public use, 16651  
     recreation facilities development, 17799  
   natural resources, 15325  
   occurrence of selected minor elements in waters, 11186  
   Pacific slope basins, magnitude and frequency of floods, 11188, 14177  
   Permian tethyan fusulinids, 16699  
   precipitation data, hourly, 3401  
   radioactivity, airborne, 1953-56, maps, 1801  
   recreational areas, hazard from butt rot defect in lodgepole pine, 1093  
   rice stocks and movement report, 3074  
   sardine and anchovy larvae distribution, etc., in California Current region, 8036  
   sediment transport in Cache Creek drainage basin in coast ranges west of Sacramento, Calif., 11181  
   southern—  
     new species of *Victorella*, 9953  
     Nov. and Dec. 1965 floods, 1115  
     water resources, summaries, 1127, 12614  
   war on poverty, examination, hearings, 16427  
   water pollution, south Lake Tahoe, hearings, 2056  
   Water Resources Division, U.S. Geological Survey—  
     activities, 1106-9  
     reports, lists, 1126

- California—Continued  
welfare recipients, nursing home care and payments for drugs, GAO report, 2354  
*see also* Palm Springs Reservation.
- California Debris Commission, nominations, hearing, 12427
- California Institute of the Arts, Walt Disney gold medal, coined bronze duplicates, furnish to, report, 16360
- Caliginae, *see* Copepods.
- Caligoida, *see* Copepods.
- Callaway, Thomas R., housing in Ivory Coast, 6419
- Calonge-Diaz, Carlos M., relief, 9236
- Caloric nystagmus, *see* Nystagmus.
- Calories, salmon diets, studies of caloric levels, 8042
- Calorimeters:  
fast-acting type for measuring heat output of plasma gun accelerator, 12911  
heating rates, numerical method for determining from thick-calorimeter data, 8486  
slug-type, sensing disk invention for higher temperature stability, 11482
- Calorimetry:  
bomb, feces preparation, improved method, 1742  
indirect, in low pressure environments, 11957
- Calumet River, pollution of interstate waters, progress evaluation meeting, 14053
- Calvert Formation, fossil marine mammals from Miocene Calvert Formation of Maryland and Virginia, 1530
- Calves:  
calf barn, open front pen type, building plan, 41  
calf crop, 7196, 7297, 14693  
on feed, 5681  
portable pens, building plan, 5659
- Calycoptis, *see* Butterflies.
- Calymenid and other Ordovician trilobites from Kentucky and Ohio, 16698
- Calystryma, *see* Butterflies.
- Cambarus:  
crayfish from Alabama caves, origin of genera Orconectes and Cambarus (Decapoda: Astacidae), 17050  
range and variations of subspecies of *Cambarus longulus*, 6947
- Cambodia:  
background notes, 15753  
capsule facts for Armed Forces, 15922  
mineral industry, minerals yearbook chapter, 11358-359  
Thailand boundary, study, 2883  
Thailand boundary, study, 2883
- Cambrian period:  
rocks of east-central Alaska, stratigraphy, 6404  
rocks of Groom district, Nev., 14169
- Cameras:  
cloud droplet camera, 4202  
solid-state wide-range low power camera timer for space applications, 5240  
TV, electronic shutter gates image orthicon on and off, 15540  
TV, subminiature deflection circuit operates integrated sweep circuits, 11479
- Cameroon:  
investment guaranties, agreement, 11868  
labor conditions, 1367
- Canamett, J., residual strains and displacements within plastic zone ahead of a crack, 5489
- Camouflage, deceptive advertising as to sizes of viewable pictures shown by television receiving sets trade regulation rule, 6337, 11068
- Camp, Thomas F., jr., colorectal polypoid lesions, 14772
- Camp, Thomas H., owning or leasing of covered hopper cars by farmer cooperatives, 16545
- Camp, William B., nomination, hearing, 4632
- Campaign expenditures:  
Presidential election campaign fund act—law, 513  
summary, 9177  
legislative history, 7762  
report, 702  
Senate amendments, summary, 4567  
Presidential election campaign fund act, guidelines—law, 12168  
legislative history, 13719  
report, 10614  
reporting, revise laws, hearings, 739  
Campaign Expenditures, Special Committee to Investigate, House:  
expenditures, pay from contingent fund, report, 640  
report, 4516  
Campaigns (political), *see* Elections.
- Campbell, Arthur A., natality statistics analysis, 8662
- Campbell, Bernard J., relief, 852
- Campbell, Bruce G., digest of Federal natural resource legislation, 13948
- Campbell, C. E., lunar, planetary, and solar topography, Project Tech Top, 5163
- Campbell, C. J., periodic mowings suppress tamarisk growth, increase forage for browsing, 6368
- Campbell, Dewey, relief, 16172
- Campbell, George G., underground combustion oil-recovery experiments in Venango second sand, Reno pool, Venango County, Pa., 11372
- Campbell, James F., longitudinal aerodynamic characteristics of high-drag bodies, 9892
- Campbell, Robert D., information system for urban planning, 11207
- Campbell, Roy E., strawberry insects, how to control them, 10167
- Campbell, Russell H., areal geology in vicinity of Charlot site, Lisburne Peninsula, northwestern Alaska, 8162
- Campbell County, Tenn., forest inventory statistics, 18239
- Campello, Ernesto M., relief, 10539, 13481, 13739
- Campers:  
activity patterns, 8071  
cost implications of camper and campground characteristics in central Colorado, 14113  
Campgrounds, *see* Camps.
- Camping:  
in National park system, fees, facilities, etc., 15610  
on public lands, State sites, facilities, etc., 8328
- Camps:  
campground trampling & ground cover response, 14138  
cost implications of camper and campground characteristics in central Colorado, 14113  
successful private campgrounds, study, 8110  
summer, opportunities for disadvantaged children, expand, hearings, 15024, 15171, 16427, 17601
- Canada:  
allow use of British Columbia ferries for Alaska-bound cargo, hearing, 13851  
automotive products, tariff elimination agreement, implementation, annual report, 7803  
automotive products, trade, agreement, 2924  
centennial—  
extend congratulations, report, 9270  
5-cent commemorative postage stamp—address at issuance, 11697  
poster, 10024

Canada—Continued  
 cooperative study of polar cap ionosphere, agreement, 17248  
 customs tips for Expo 67, 9358  
 defense, civil emergency planning, agreement, 17249  
 egg production tests, 1966 report, 4085  
 Great Lakes fisheries convention, amending, report, 6064  
 Gut Dam claims, agreement, 8725  
 immigration inspection, what you should know at time of entry to U.S. after visit to Expo 67, 11213  
 light list and other marine aids, Great Lakes, 9003  
 loan of long range aid to navigation (Loran-A) equipment, agreement, 2907  
 market profiles, 13462  
 meteorological research with rockets, agreement, 5548  
 mineral industry, minerals yearbook chapter, 6647  
 naval base leased to United States, Argentina, Newfoundland, ferry service, agreement, 5534  
 pension and medical care legislation, 5516  
 pension plan, agreement, 15769  
 pilotage services on Great Lakes and St. Lawrence Seaway, agreement, 14689  
 plant quarantine import requirements, 15829  
 plant regulatory officials, 5618  
 radar, continental defense system, phase-out of certain stations, agreement, 2932  
 Redcliff, Newfoundland, land adjacent to leased bases area, continuing use, agreement, 7155  
 St. Lawrence seaway, Montreal/Lake Ontario section tolls, Welland Canal, lockage fee, agreement, 11872  
 selling in Canada, 16104  
 supplementary income-tax convention—  
   hearing, 17651  
   message from the President, 4575  
   report, 17620  
 tariff concessions, staging, amending agreement, 17247  
 telecommunication, pre-sunrise operation of certain standard (AM) radio broadcasting stations, agreement, 15780  
 underwater and floating-leaved plants, field identification guide, 15267  
 wheat marketing, 4816  
 winter maintenance of Haines Road, agreements, 8728, 17230  
 Canada-United States Interparliamentary Group, meetings, Senate delegation reports, 764, 15058  
 Canadian border to Eureka, Calif., coastal warning facilities chart, 14717  
 Canal, Giovanni A., etchings of Canaletto, 10080  
 Canal Zone:  
   Armed Forces mailing privileges, clarify, report, 10613  
   citizenship certificates, authorize issuance—  
     law, 424  
     report, 923  
   insurance business annual report, 12032  
   U.S. Army, Southern Command, personnel ordered to, helpful hints, DA pamphlet, 14797  
 Canal Zone Government, annual reports, 148, 13356  
 Canaletto, *see* Canal, Giovanni.  
 Canals:  
   sea-level—  
     connecting Atlantic and Pacific Oceans, construction, hearings, 10664  
     construction, possible use of nuclear explosive (remarks), 1819

Canals—Continued  
   sea-level—continued  
     site, joint technical-economic feasibility investigations, agreement with, Colombia, 11835  
 Canards, effect in reducing launch vehicle flight loads, 14496  
 Cancer:  
   aberrant cells, nature, 15674  
   biotherapy with cruzin, tumortropism of Trypanosoma cruzi as basis, USSR study, 6548  
   bone, health information, 17147  
   cancer and filtrable forms of cells, USSR study, 8262  
   cause and prevention, 5422  
   changes in tissue antigens during process of experimental carcinogenesis, 1156  
   characteristics of clients rehabilitated, 7221  
   chemotherapy abstracts (periodical), 3075-76  
   chemotherapy, development in Soviet Union, 17878  
   control, senior clinical traineeships, 14618  
   drugs vs. cancer, 15708  
   lungs, health information, 1575  
   oral early detection using exfoliative cytology, training course summary, 18161  
   origin, research on evolution of virus theory, USSR study, 9655  
   ovarian, surgical treatment combined with application of radiogold, 5031  
   precancer and cancer of cervix uteri, differential cytological diagnosis using fluorescence and phase-contrast microscopy, USSR study, 12700  
   progress against, 1966, report by National Advisory Cancer Council, 2835  
   rates and risks, questions and answers, 5423  
   regional medical programs, guidelines, 13076  
   research, recent Soviet work, 1334  
   services, facilities and programs in United States, 18154  
   skin, health information, 2816  
   Soviet studies, 9616  
   treating, surgery, radiation, and chemotherapy use, 17165  
   tumor cells of human brain, DNA content, cytospectrophotometric research, USSR study, 12757  
   uterus, 14628  
   what to know, what to do about it, 15686  
 Cancer Institute, *see* National Cancer Institute.  
 Candles, chlorate, use as concentrated oxygen source, 14410  
 Candy, *see* Confectionery.  
 Canine corps, *see* Dogs.  
 Canisters, passive geodetic satellite caulster assemblies, 5184  
 Cann, M. W. P., light sources for remote sensing systems, 16893  
 Canned foods, report (periodical), 3077  
   *see also* names or classes of foods canned.  
 Canney, F. C., mineral resources of Pine Mountain primitive area, Ariz., 11166  
 Canning and preserving, home, helpful Government publications, list, 15673  
   *see also* names of commodities canned or preserved.  
 Cannon, Emerson T., cratering in low-density targets, 11420  
 Cannon, Walter F., Smithsonian journal of history, 3879  
 Canonical transformations, phase variable form, 12923  
 Cans, metal, current industrial reports, 3169, 4330, 15998  
 Cantaloupes, *see* Muskmelons.  
 Cantil, August F., local union election appeals, analysis, 6592

# INDEX 1967

Canton, Steve :  
 Air Force civil engineer, 3008  
 Air Force comptroller, 15879  
 Canton, Ohio, area wage survey, 11328  
 Cantrell, George K. :  
 factors in job-satisfaction, follow-up, 10241  
 job satisfaction and intent to re-list, 7370  
 patients' views of patient care during aero-medical evacuation, 17350  
 Canvas, general repair for canvas and webbing, Army technical manual, 14801  
 Canyon de Chelly National Monument, general information, 6976  
 Canyon group, *see* Pennsylvanian period.  
 Canyonlands National Park, gravity and magnetic surveys, 2368  
 Capacitance, input, miniature electrometer preamplifier compensates, 2666  
 Capacitors :  
 cryogenic, dielectric properties of promising materials, study made, 17977  
 miniature, functions as pressure sensor, 6747  
 nonelectrolytic tantalum, development, 2667  
 Pharos bank, vacuum clamp switch, 9984  
 Pharos 2-MJ, clamps for bank, 11671  
 precision, improved temperature and operational stability, 16885  
 Cape, *see* name of cape, except names of towns, etc.  
 Cape Cod to Sandy Hook, coast pilot, 7556  
 Cape Hatteras, N.C. to Brunswick, Ga., coastal warning facilities chart, 14718  
 Cape Hatteras National Seashore :  
 funds, authorizing appropriation report, 17629  
 general information, 8553  
 Cape Henry to Key West, coast pilot, supplement, 5943  
 Cape Romain National Wildlife Refuge, birds, list, 17777  
 Cape Spencer to Beaufort Sea, coast pilot, supplement, 5945  
 Capellen, J., bibliography of 1966 mass spectroscopy literature compiled by computer method, 15961, 17393  
 Capillaries, mass transfer, 8211  
 Capital :  
 adjusting balance of payments deficits through capital accounts (remarks), 4781  
 financial intermediaries' role in U.S. capital markets, 6303  
 fixed, classification by types in branch break-down, USSR study, 15370  
 interest rates in capital markets, 6299  
 international markets, and financing of U.S. foreign trade and investment (remarks), 6300  
 private outflows and balance of payments (remarks), 1966  
 Capital of United States :  
 Gallaudet College, model secondary school for deaf to serve region, establishment, etc., law, 408  
 legislative summary, 8192  
 housing program for senior citizens in Nation's Capital, 11593  
 International Center for National Capital, general information, 11594  
 National Capital parks, activities, 9955  
 proposed comprehensive plan for National Capital, 8528-29  
 regional development guide, 1966-2000, National Capital area, 8530  
 transit program for region, modify, report, 16294  
 welcome to Washington, 13010  
*see also* District of Columbia.  
 Capital punishment, executions, 17128  
 Capitalism, new capitalism (remarks), 4428

Capitol :  
 buildings and grounds, safety and order within, more effective security regulations—  
 hearing, 16434  
 law, 17553  
 report, 16299  
 grounds and contiguous areas, comprehensive plan for development, report, 10769  
 history, pictorial story, 517  
 House side, parking, create select committee to regulate, report, 12274  
 police, employ additional personnel, report, 10584  
 Capitol Art and Antiquities Commission, *see* Art and Antiquities of Capitol Commission.  
 Cap'n Frank (vessel) :  
 documentation with coastwise privileges, report, 10764  
 Capone, Francis J., determination of boundary-reflected-disturbance lengths in Langley 16-ft. transonic tunnel, 16991  
 Capps, Hahn W. :  
 Loxostege Hubner species review and descriptions of new species (Lepidoptera, Pyraustidae: Pyraustinae), 8542  
 moths of genus *Euchromius* Guenée, etc., 5308  
 Capsules, sealed, human water exchange, 12863  
 Captioned films for the deaf program, 10929  
 Car wash, *see* Carwash.  
 Caraway, Bobby L., physiologic baseline studies of zoologic specimens, 7351  
 Carbanic acid, carbamates, chemical safety data sheet, 9682  
*see also* Zectran.  
 Carbides :  
 cathodes of uranium, zirconium and solid solutions, USSR studies, 6532  
 manufacture of thin plates from refractory carbides, USSR study, 1296  
*see also* Boron carbide—Molybdenum carbide—Silicon carbide—Tantalum carbide—Uranium carbide.  
 Carbohydrates :  
 classification definitions, 18123  
 isotopic methods for analysis, 18081  
 Carbon :  
 compounds, chemistry, classification definitions, 18133  
 compounds in air contaminants, models for analysis of radiation behind shock waves, 9905  
 content and temperature of tantalum carbide, Hall coefficient as function, 18018  
 electrochemical reduction of chlorine on carbon in molten lithium chloride-potassium chloride, 17003  
 hafnium-carbon phase diagram, investigation, 14340  
 impregnated mechanical carbons, wear and friction at temperatures to 1400° F in air or nitrogen, 9915  
 phase relations in uranium monocarbide region of system uranium-carbon-oxygen, 12821  
 phenolic composite, nondegraded and thermally degraded, thermal and mechanical properties, 16917  
 stabilization in stainless steel and its effect on mass transfer in stainless steel-Cb-1Zr-potassium system, 12864  
 Carbon arc, *see* Electric arc.  
 Carbon black, mineral industry survey, monthly, 3078  
 Carbon dioxide :  
 acidity constant of true carbonic acid and its rate of dehydration, use of flow apparatus with glass electrodes, 12734  
 adsorption of anthracite, surface area studies, 1412  
 adsorption on carbon solids, 5351

Carbon dioxide—Continued  
coupled vibration and dissociation relaxation behind strong shock waves, 6908  
Earth's horizon radiance profile in 15 micron absorption band, 8417  
electrolytic dissociation of  $\text{CO}_2\text{-H}_2\text{O}$  using solid oxide electrolyte, study, 6715  
interaction with hydrogen chemisorbed on platinum electrode, errata, 8586  
measuring content of blood by electrochemical technic, 10243  
measuring in inspired air of self-contained breathing apparatus, machine-test method, 1413  
1,4 cyclohexanebis (methylamine), regenerative absorbent, 8589  
pressures and forces on flare-stabilized bodies in air and in mixture of 85-percent  $\text{CO}_2$  and 15-percent air, 17011  
profile in Martian atmosphere, flyby measurements, 15569  
recombination of carbon monoxide and atomic oxygen at high temperatures, 2718  
sensor, electrochemical, 17354  
Carbon disulfide:  
bench scale production from lignite char and sulfur, 5127  
Intensity measurements of absorption bands, 1550  
Carbon isotopes, carbon-14 labeled stearic acid adsorption on iron, study, 14595  
Carbon monoxide:  
bibliography with abstracts, 1589  
production, flame characteristics causing air pollution, 8378  
reaction rates with hydroxyl radicals and oxygen atoms, 16997  
recombination of carbon monoxide and atomic oxygen at high temperatures, 2718  
Carbon steel, *see* Steel.  
Carbon tetrachloride:  
and endrin, comparison of acute effects on livers of rats, 4252  
fire extinguishers, hazards, 8151  
Carbonates, carbonate-bicarbonate equilibrium research, USSR study, 1250  
Carbonau, Pierre, or heirs, relief, 610  
Carbonization:  
coal—  
BM-AGA yields from 13- and 18-inch-diameter retorts, correlation, 2575  
conditions, effect on coke size and strength, 16866  
Fayette and Greenbrier Counties, W. Va., 2576  
high-temperature irradiation and carbonization, products from, comparison, 2572  
Logan and Mingo Counties, W. Va., 5130  
low-temperature, product yields, Utah coalfields, estimation, 14345  
yields and analyses of tars and light oils, 16850  
Carbothermic process, magnesium production methods, economic and technical evaluation, 11376  
Carcinogenesis, *see* Cancer.  
Carden, Huey D., application of penetrometer technique to lunar surveying staff concept, 11503  
Cardiac activity, *see* Heart.  
Cardiac output, *see* Blood.  
Cardiopulmonary responses of resting man during early exposure to high altitude, 7413  
Cardiovascular system:  
absorption of radioactive albumin from lungs, 13269  
airmen who apply insecticides from aircraft may suffer ill-defined effects, 17410  
bedrest effect on circulatory response to Valsalva maneuver, 2395

Cardiovascular system—Continued  
circulatory function of man during prolonged bed rest, influence of long-term lower body negative pressure, 1734  
deconditioning, observed after 10 days bed recumbency, possible preventive effects of muscular exercises and intermittent venous occlusion, study, 8408  
forearm vascular responses to lower body negative pressure and orthostasis, 4175  
metabolic aspects of acute starvation—performance and cardiovascular evaluation function, 121  
ten days, 122  
reactions of crewmen during Voskhod-2 orbital flight, 6555  
response of man in oxygen-helium atmosphere, 88  
responses in anesthetized dogs during repeated decompressions to near-vacuum, 78  
systemic vascular reactions by means of complete artificial blood circulation in cats, USSR study, 11287  
Cards, card processing operations, tabulating equipment, standard time values for work measurement, 184  
*see also* Catalog cards.  
Cardus, David, possible preventive effects of muscular exercises and intermittent venous occlusion on cardiovascular deconditioning observed after 10 days bed recumbency, 8408  
Cardwell, W. D. E., ground water, 11179  
Career Advancement, Presidential Task Force on, *see* Presidential Task Force on Career Advancement.  
Career guidance, *see* Guidance.  
Careers, *see* Civil service—Government officials and employees—Occupations.  
Carey, James T., handling of juveniles from offense to disposition, 13180-182  
Cargo, fixed wing aircraft, restraint design criteria, analysis, 10289  
*see also* Shipping—Shipment.  
Cargo carriers, U.S. certificated, domestic, international and overseas routes, map, 4377  
Cargo services, *see* Air carriers.  
Caribbean area:  
climatological data, 3096  
Communist threat to U.S., hearings, 957, 2125, 7816  
health information for travel, 13080  
islands, mineral industry, minerals yearbook chapter, 14332  
vegetable gardening, 15836  
Virgin Islands, U.S., our Caribbean gems, description, history, etc., 18240  
Caribou County, Idaho, geology of Stewart Flat quadrangle, 11162  
Caridad Ares y Fernandez de Bosch, Myriam, *see* Bosch, Myriam.  
Carics, *see* Teeth.  
CARIH (Children's Asthma Research Institute and Hospital) Asthma Week, *see* National CARIH Asthma Week.  
Carillons:  
duty-free entry—  
Northfield and Mount Herman Schools, 7650, 14884, 16353  
University of California, 7649, 14887, 16355  
Caritus, *see* Copepods.  
Carl, Herbert A., statewide long-range planning for libraries, 1016  
Carleton, Nathaniel P., metastable molecules of atmospheric interest, 4153  
Carload waybill statistics, *see* Railroads.  
Carlson, A. J., Carlson-Crittenden device for collection of human parotid fluid, further modification, 10240  
Carlson, Robert B., Zimmerman pine moth, 11105  
Carman, Hoy F., apple-packing costs in Michigan, 5653



# INDEX 1967

- Carmel, N.Y., aircraft accident, 4370  
 Carmel formation, *see* Jurassic period.  
 Carmichael, Ralph L., integrated approach to analysis and design of wings and wing-body combinations in supersonic flow, 1493  
 Carnations:  
   blooms, quality and display life after storage in controlled atmospheres, 15863  
   production and sales, etc., 10108  
 Carnevale, E. H., experimental determination of transport properties of high temperature gases, 11412  
 Carney Lake Complex, rocks, petrographic descriptions, 6398  
 Carnivores, brain stem and spinal cord, neuronal structure and synapses, USSR study, 12711  
 Carolin, V. M., field testing of *Bacillus thuringiensis* for control of western hemlock looper, 14140  
 Carolina Beach, N.C.:  
   harbor, engineer report—document edition, 2006  
   document edition, 2006  
 Carp, Frances M., patterns of living and housing of middle-aged and older people, 14634  
 Carpenter, Anita A., catalog of captioned films for the deaf, 7891  
 Carpenter, C. H., ground-water conditions, etc., upper Sevier River basin, Utah, 14180  
 Carpenter, Carmen, cumulative index of congressional committee hearings, 2d quadrennial supplement, etc., 13472  
 Carpenter, Frances, evaluation of fibro-sampler and digital fibrograph for sampling cotton fibers and measuring length characteristics, 8834  
 Carpenter, Kenneth S., directory of public training schools serving delinquent children, 4364  
 Carpenter, Richard A., policy planning for technology transfer, 10693  
 Carpenter, Stanley B.:  
   controlling cull ohla trees by injecting herbicides, 8088  
   herbicides for site preparation, broadcast spray by mist blower tested against understory in Hawaii rain forest, 4842  
 Carpenters, safe work guide, 11302  
 Carpet mills, displaced workers, case study of post-layoff experience, 1360  
 Carpets:  
   and carpeting, current industrial reports, 4338, 8945, 13393  
   duty free sales of certain waste produced from imported conditionally duty-free carpet wool, GAO review, 12591  
   Wilton, Brussels, etc., Tariff Commission report, 15808  
 Carpio, Arturo V. Fajardo-, *see* Fajardo-Carpio, Arturo V.  
 Carr, James N., United States typewriter industry, analysis and trends, 13355  
 Carreras, Bienvenido Benach, *see* Benach Carreras, Bienvenido  
 Carriage system remotely moves drawer over extended distance, 6703  
 Carriers:  
   common carrier services, applications, FCC, 3269  
   interstate commerce act, amend to permit free or reduced rates for governmental bodies only during war or national emergency, hearings, 16398  
   interstate commerce acts annotated, 1962 supplement, 6475  
   railroad, schedule of annual indices, revised pages, 16728  
   *see also* Air carriers—Communications—Motor carriers—Pipe lines—Telephone—Water carriers—Weapons carriers.  
 Carrigan, Anne L., geophysics and space data bulletin, 3377  
 Carriker, Melbourne A., Jr., authority on Mallophaga, posthumous papers, catalog of forms described as new, and bibliography, 15599  
 Carrots, commercial growing, 11932  
 Cars, *see* Automobiles—Railroad cars.  
 Carter, Arthur W., free-flight characteristics, etc., of ground-effect machine, 9880  
 Carter, Lisle C., Jr., optimum social welfare, 8194  
 Carter, Mary E., arthritis and rheumatic diseases abstracts, 3045  
 Carters Dam, construction, wage rate determinations, Labor Dept., GAO review, 4878  
 Cartographers, examination announcement, amdt., 13439  
 Cartographic technicians, examination announcements, 1910, 13445  
 Cartography, *see* Maps and charts.  
 Cartridges, excise tax, amend internal revenue code, reports, 2027, 7698  
 Carver, John A., Jr., nomination, hearings, 6094  
 Carwash, starting and managing, 15733  
 Casa Grande Ruins National Monument, general information, 13003  
 Cascade (USS):  
   deployment to Malta, agreement, 8745  
 Cascade Range, forest floors and soils under true fir-hemlock stands, characteristics, 11139  
 Cascade Springs quadrangle, S. Dak., geology, 14168  
 Case, Clifford P., United Nations peacekeeping dilemma, 10835  
 Caselod statistics, State vocational rehabilitation agencies, 5588  
 Cases, *see* Brief cases.  
 Caseworkers, *see* Social workers.  
 Casey, Harold W., residual pathologic changes in central nervous system of dog following rapid decompression, 1743  
 Cashlon, W. B.:  
   Carmel formation of Zion Park region, southwestern Utah, 11168  
   geology and fuel resources of Green River formation, southeastern Uinta Basin, Utah and Colo., 12610  
 Cash-registers, repairmen, apprenticeship and training policy, 7373  
 Caskey, James E., Jr., monthly weather review, 3583  
 Cass, Millard:  
   addresses—  
     Jan. 21, 1967, 5039  
     May 24, 1967, 11295  
 Cass County, N. Dak., soil survey report, 8702  
 Cassegrain antennas, *see* Antennas.  
 Cassell, Frank H.:  
   addresses—  
     Apr. 27, 1967, 10945  
     June 29, 1967, 12473  
 Cassini, LAC 25, lunar chart, 7321  
 Cast iron:  
   current industrial reports, 3169  
   white, homogeneity characterization of NBS spectrometric standards, 2737  
   *see also* names of manufactured articles.  
 Castaneda, David, relief, 13735, 16209, 17512  
 Castellanos Lopez, Julio J., relief, 827, 9229  
 Castillo, Antonio Martin Ruiz del, *see* Martin Ruiz del Castillo, Antonio.  
 Castillo de San Marcos National Monument, general information, 6977  
 Castings:  
   heat treatment study of aluminum casting alloy M45, 12892  
   iron, current industrial reports, 3169  
   nonferrous, current industrial reports, 3169, 4335, 14830  
   nonmalleable iron, amend tariff schedules, report, 7697  
   plug replaces weld filler as seal, 2632



Castings—Continued  
 steel casting and foundry work in USSR, 1224  
 steel, current industrial reports, 3169  
 Castration, hogs, general information, 5637  
 Castro, Amparo, relief, 12330, 13488 13603  
 Castro, Renato C., relief, 317, 568  
 Casualties, Air Force, benefits for dependents and survivors, personal affairs pamphlet, 13259  
 Caswell, R. S., Fortran programs for calculation of Wigner coefficients for angular momenta, 1526  
 Catalano, John F., arousal as factor in reminiscence, 9981  
 Catalog cards:  
 Library of Congress—  
 books, authors, 1393, 3601  
 books, subjects, 2529, 3505  
 motion pictures and filmstrips, 3506  
 music and phonorecords, 15459  
 Cataloging:  
 Atomic Energy Commission, corporate author entries, 13345  
 cataloging handbook, H series, 975-976, 2144-46, 3325-27, 7847, 10886, 16457, 17688  
 cataloging manual M (series), 4669, 6140, 12439, 16458, 17689  
 descriptive, of Government scientific and technical reports, standard for, 6245  
 notes for medical catalogers (periodical), 3639  
 service, bulletin, 3081  
 supply cataloging—  
 Federal manual—  
 International cataloging, 4669  
 operating procedures, 17689  
 procedures for FSC classes assigned for integrated management, 6140  
 format, content, and preparation of Federal supply catalog publications, 12439  
 technique for measuring image quality, development and evaluation, 7406  
 Catalogs:  
 Air Force Academy, Colo., 10208  
 Armed Forces Information and Education, current information materials, 7374  
 captioned films for the deaf, 7891  
 Census Bureau, 3064  
 census publications, monthly supplement, 3065  
 Coast Guard Academy, 14879  
 Commerce Department publications, 1905 supplement, 4454  
 copyright entries, 967-969, 2141, 10880, 12432-435, 13904, 16451-452, 17682-685  
 darters, type specimens (Pisces, Percidae, Etheostomatini), 6951  
 Dürer and his time, exhibition from collection of Print Room, State Museum, Berlin, 10079  
 Federal assistance programs, 12447  
 films, 1967, Public Health Service, 17045  
 films on oceanography, 2770  
 5,000- and 10,000-year star catalogs, 8683  
 Government publications, monthly catalog, 3568  
 GSA stock catalog—  
 general supplies, 3385, 16606  
 supplements, 8009, 11066  
 handtools, 6334  
 supplements, 4797, 11067, 16608  
 standard forms, 16607  
 Homoptera, 12  
 Industrial College of Armed Forces, 1967-68, 11240  
 Investment information and opportunities, index, 1150, 14208  
 deletion notices, 3079  
 supplement notices, 3080  
 Joint Publications Research Service current translations, addendum, 2425, 15344

Catalogs—Continued  
 Labor Statistics Bureau publications, 8318, 17898  
 Library of Congress—  
 books, subjects, 2529, 3505  
 motion pictures and filmstrips, 3506  
 music and phonorecords, 15459  
 national register of microform masters, 2530  
 national union catalog, 3601  
 annual cumulation, 1393  
 manuscript collections, 2531  
 register of additional locations, 16838  
 subject heading, monthly supplement, 3910  
 medical and veterinary zoology, 15, 13205  
 meteorological satellite data, television cloud photography—  
 ESSA 3, 16536  
 TIROS IX, 6227  
 TIROS X, 13990  
 microfilm publications of National Historical Publications Commission, 6936  
 Military Academy, West Point, 17910  
 National Bureau of Standards, standard materials, 17033  
 quarterly insert sheets, 1519, 11582  
 National Library of Medicine—  
 annual cumulation, 8533  
 biweekly listing, 3597  
 cumulative listing, 11601  
 16th century printed books, 15598  
 Naval Academy, Annapolis, 5327, 17061  
 Naval Oceanographic Office, technical reports and special publications, 11632  
 outdoor recreation research projects, 7029  
 packaged disaster hospital materials, 13081  
 paintings, Alice Pike Barney memorial lending collection, 2747  
 parasite and subject catalog, protozoa, 15  
 programmed instructional material, Navy, 18106  
 synoptic, Hymenoptera of America north of Mexico, 7267  
 United States nautical chart catalog—  
 Alaska and Aleutian Islands, 216  
 Atlantic and Gulf Coasts, Puerto Rico and Virgin Islands, 4415  
 Pacific Coast, Hawaii, Guam and Samoa Islands, 7558  
 water resources research, 6452  
 zoological names of Portland catalogue, 8546  
 Catalysis, research, current status in Hungary, 16739  
 Catalysts:  
 biological models, USSR study, 14239  
 metallocomplex catalysis research, USSR study, 1250  
 noble metals, molybdenum, and tungsten in hydrocarbon synthesis, 12827  
 Raney nickel technology, 14418  
 Cataracts, hope through research, 18167  
 Catusas, Antonio U., relief, 272, 583  
 Catusas-Rodriguez, Ubaldo G., relief, 10540, 13482, 13740  
 Catecholamines:  
 excretion during exposure to oxygen-bellum atmosphere, 7306  
 response to tilting, effects of bed rest and water immersion, 7345  
 Caterini, Dino J., relief, 7661  
 Caterpillars, control on cabbage, etc., in South, 15847  
 Catfish:  
 channel—  
 marketable, rearing in ponds, 6356  
 MS-222 as anesthetic, 8033  
 response of fingerlings to purified diets, 8042  
 vitamins essential for growth, 8042  
 fancy, recipes, 8025  
 Cathey, Henry M., growing flowering annuals, 18553  
 Cathode ray tubes, display, computer program samples digital data, 14440

- Cathodes:**  
carbide, evaporation rates of uranium, zirconium, and solid solutions, USSR studies, 6532  
durability tests in mercury electron-bombardment ion thrusters, 12960  
high rate, exploratory investigation, 8596  
hollow, plasma penetration study, 2612  
hot-cathode magnetron ion gauge, 5185  
oxide-cathode durability in mercury electron-bombardment ion thruster, 6867
- Cations, see Ions.**
- Cats:**  
artificial blood circulation, systemic vascular reactions, USSR study, 11287  
hyperthermic, carotid and femoral artery blood flow, 5710
- Cattaraugus Creek:**  
harbor, improvement, engineer report—departmental edition, 10950  
document edition, 10505
- Cattle:**  
beef cattle corrals, farm building plan, 4125  
blackleg, cause, control, etc., 14748  
contagious pleuropneumonia still threat, 10190  
dairy—  
DHIA sire summary list, Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, and Red Dane sires, 7245, 17299  
interstate movement, selected States, 8756  
diets on native and seeded ranges in ponderosa pine zone of Colorado, 6369  
fescue foot, what to do about it, 14750  
grazing, effects on ponderosa pine-bunchgrass range in Colorado, 14764  
grazing in woods or woods in pasture, 14093  
growth, effects of protein and energy intake on nitrogen retention, 1723  
market, testing program, brucellosis eradication activities, 3919  
on feed, 3082, 5681  
relationship between timber and cattle production on ponderosa pine range, Wild Bill Range, 16652  
salmonella reports, salmonellosis review, 9  
sold for slaughter, selected markets, 3082  
stocker and feeder, shipments, 3875  
young malnutrition effect on feed utilization, body size and meat quality, 14765  
*see also* Livestock—Tuberculosis in animals.
- Cattle ranges, see Range lands.**
- CATV (community antenna television), see Television.**
- CATV requests filed pursuant to FCC rules, 3269**
- Caucasus:**  
anti-hall expedition, 1965, work, results, 12681  
Lower, man's adaptation to high altitude, USSR study, 14276
- Cauliflower, caterpillar control in South, 15847**
- Caviechl, Richard H., mapping tungsten-reactor rocket engine as guide to operation and control, 9876**
- Cavity resonators, see Resonators.**
- Cawthorn, Jimmy M., measurement of performance, inlet flow characteristics, and radiated noise for turbojet engine having choked inlet flow, 11499**
- Cayman Islands, see Jamaica.**
- CBR, see Biological warfare—Chemical warfare—Radiological warfare.**
- CCC, see Commodity Credit Corporation.**
- CCPM pamphlet, 10043**
- CCR Clearinghouse publications, 8982, 14849-850**
- CEA-series, 3341, 3874**
- CEC, see Civil Engineer Corps, Navy.**
- Ceccarelli, Jane M., vested benefits, 5501**
- Cedar:**  
eastern redcedar, effect of gibberellic acid spray on seedlings, 11129  
juniper control by individual tree burning, 2313  
Juniperus communis, Gymnosporangium clavariiforme in witches' brooms, 8809  
redcedar, establishing mixtures in poor oak-hickory forests, 8073  
Cedar Rapids, Iowa, population, special census, 10367  
Cedros Trench, bathyl and abyssal gammaridean Amphipoda, 17046  
Celentano, J.T., acclimatization versus tolerance to stress, annotated bibliography, 17363  
Celestial bodies, exploration and use, treaty on principles governing activities of States, analysis and background data, 7791  
Celestial mechanics:  
computing orbits, regularization methods, 12857  
new methods—  
integral invariants, periodic solutions of 2d type, doubly asymptotic solutions, 11561  
Newcomb, Gylden, Lindstedt, and Bohlin methods, 11560  
periodic solutions, non-existence of integral invariants, asymptotic solutions, 9921  
*see also* Three-body problem.
- Celestial navigation, see Navigation.**
- Cellobiose, 1-C14, preparation and purification, 14087**
- Cells:**  
animal, infecting with ribonucleic acid of tobacco mosaic virus, possibility problem, USSR study, 6486  
connector for saturated standard cells, 11590  
film, cadmium sulfide, mechanism, 6889  
nucleolus, structure and function, international symposium, 7074  
structure, virological and microscopic studies, USSR, 6562  
sympathetic ganglion cells and acridine orange-DNA complex spectra, USSR study, 12702  
tissue and organ culture, 2d decennial review conference, 18172  
*see also* Blood—Cancer—Cytology.
- Cells (electrolytic), see Electrolytic cells.**
- Cellular materials, cellular structures as load-bearing structural elements, Hungarian study, 4956**
- Cellulose, alpha, effect of inorganic salts on pyrolysis determined by dynamic thermogravimetry, 8103**
- Cement:**  
duty-free treatment of limestone for cement—  
law, 10483  
reports, 9092, 10563  
industry, vertical mergers, enforcement policy, 4799  
mineral industry survey, monthly, 3084  
minerals yearbook chapter, 5098  
performance in concrete, 16528  
portland cement concrete pavements, non-destructive testing, evaluation of Dynaflect, 16524  
refractory, crucible cast from, impervious to flux and molten metal, 5152
- Cemeteries:**  
American military, overseas, general information, 14787  
land in trust for Battle Mountain Indian Colony—  
law, 14915  
reports, 13827, 14932  
*see also* names of cemeteries, or places where located.
- Cenozoic era:**  
Enos Creek detachment thrust fault, geology, 2360

Cenozoic era—Continued  
 pectinids of Alaska, Iceland, and other northern regions, 11180  
 volcanic rocks of Devils Postpile quadrangle, eastern Sierra Nevada, Calif., 14170  
 Censorship, press, field manual, 13293  
 Census:  
 address coding guide and register, general applications, 16028  
 agriculture, 1964—  
 data-collection forms and procedures, 16041  
 final reports, 16041  
 preliminary reports, 3085  
 State and county statistics, 7499-7510, 8962-65, 10388-398, 12091-92, 13404, 14837-839, 16036-40, 17442  
 business, 1963—  
 major retail centers, area statistics, bound volume, 1832  
 retail trade area statistics, 10339-340  
 bound volume, 151  
 retail trade subject reports, bound volumes, 5818, 8930-32, 10341  
 retail, wholesale, services, bound volumes, announcement and order form, 7453  
 special reports, 4270, 5816-17  
 wholesale trade subject reports, bound volume, 7459  
 computer-based geographic coding, 1970 (paper), 4304  
 governments, 1967, preliminary reports, 13361  
 manufactures, 1963—  
 area statistics, 152-165, 1833-53, 4271, bound volume, 7462  
 final reports, announcement and order form, 12033  
 general summary, 4273  
 industry, statistics, 4272, 8933  
 bound volume, 7461  
 preliminary reports, 3086  
 special reports, 13362, 14817  
 subject reports, bound volume, 7460  
 subject statistics, 4273-79  
 summary and subject statistics, 7460  
 methodological reports, 1900-66, list, 10382  
 mineral industries, 1963—  
 advance reports, 3087  
 area statistics, 4250-4300, 5821-46, 7463-64  
 announcement and order form, 5808  
 bound volume, 12038  
 announcement and order form, 13363  
 industry statistics, 166-167, 1854, 5847, 7465, 8934, 10342  
 bound volume, 13364  
 announcement and order form, 13363  
 subject statistics, 5848, 7466-71, 8935  
 final reports, announcement and order form, 4263  
 monograph, 1960, census, 14833  
 Nation's census taker, 5889  
 needs and plans for 1970 censuses, papers, 4303  
 planning 1970 censuses to meet State and local needs (paper), 10383  
 plans for 1970 census of population and housing, hearings, 13711  
 population, mid-decade census of 1975, etc., reports, 13663, 13686  
 population, 1960, final reports, 13402-403, 14835  
 population, 1790-1890, price list of microfilm copies of schedules, 1518  
 population, supplementary reports, 4301  
 population, unemployment, and housing, mid-decade census in 1975, etc., hearings, 10666  
 records, your name is somewhere, 10400

Census—Continued  
 seasonal adjustment program, X-11 variant of census method 11, 5902  
 small-area data activities, 3878  
 statistical briefs from around world (periodical), 3898  
 statistics, obtaining for selected group of persons, 8955  
 tract memo, 3088  
 tract papers GE-40 (series), 4303  
 transportation, 1963—  
 final volumes, 1855-56, 4302, 7472-73  
 passenger transportation survey, 10343  
*see also* subjects.  
 Census Bureau:  
 catalog, 3064  
 continuing review of retail trade, surveys, announcement and order form, 1884  
 data access descriptions—  
 automated address coding guide and data retrieval series, 16028  
 matching studies series, 8955  
 employees, claims incident to service in taking 1960 decennial census, Secretary of Commerce to settle—  
 law, 442  
 report, 928  
 facts about America from recent surveys, 7491  
 methodological reports, 1900-66, list, 10382  
 Nation's census taker, general information, 5889  
 press releases, 3708  
 publications, catalog, supplement, 3065  
 schedule B, 3849  
 schedule P, 10386  
 Small-Area Data Advisory Committee, activities, 3878  
 special censuses conducted, summaries, 7488-89, 10379, 16018, 16023  
 standard industrial classification (SIC) system (address), 181  
 technical papers, 5902, 13401, 16035  
 working papers, 13413  
 Center for International Systems Research, occasional papers, 5525  
 Central African Republic:  
 labor conditions, 1368  
 Peace Corps program, agreement, 7186  
 Central America:  
 caddis flies, 11611  
 east coast, sailing directions, change, 9969  
 health information for travel, 13080  
 records of Dept. of State, microcopy, pamphlet to accompany internal affairs, 18067  
 west coast, sailing directions, 6998, 15625  
 Central American Common Market, foreign trade regulations, 17478  
 Central Arizona project:  
 authorize, etc.  
 hearings, 10851  
 report, 13826  
 Central City quadrangle, Colo., petrology and structure of Precambrian rocks, 12611  
 Central Intelligence Agency:  
 act of 1949, amend, hearing, 719  
 deputy director, nomination of Rufus L. Taylor, hearings, 942  
 Central Management Office of Food Services Department, D.C., salaries and operating costs, funds, reports, 2087, 16381  
 Central nervous system, *see* Nervous system.  
 Central Radio Propagation Laboratory, *see* Telecommunication Sciences and Aeronomy Institute.  
 Central RR. Co. of New Jersey, payment of loan guaranties, appropriation, 10699  
 Central States:  
 cost of transporting freight, 11232  
 east south central division, annual survey of manufactures, 1965 statistics for States, standard metropolitan statistical areas, and large industrial counties, 17420

# INDEX 1967

- Central States—Continued  
 farm jobs from Gulf to Great Lakes, guide, 6202  
 north central region—  
 nonmetropolitan areas, employee earnings and bours, 15447  
 pulpwood production, etc., 1965, by county, 2337  
 south, ground-water levels in United States, 16702
- Central Valley:  
 drainage from east, magnitude and frequency of floods, 14177  
 flood drainage from west, 11188
- Central Valley project:  
 annual report, 14642  
 history and achievement, 8666  
 Sacramento Valley irrigation canals, increase capacity—  
 law, 14909  
 reports, 7714, 9116, 10735
- San Felipe division, construct, etc.—  
 hearings, 12303  
 law, 16128  
 reports, 10790, 14935, 14954
- San Felipe division, Interior Dept. report, 5975
- Tehama-Colusa Canal, enlargement and realignment—  
 law, 14909  
 reports, 7714, 9116, 10735
- Centrifugal compressors, *see* Compressors.  
 Centrifugal fans, *see* Mechanical fans.  
 Cephalopods, *see* Squids.
- Cepollina, Frank J., analog computation in predicting temperature of spacecraft, 6853
- Ceramals, thermal conductivity of cermet fuel materials for nuclear reactor application, estimating, 8502
- Ceramics:  
 and insulating materials, properties, USSR study, 16755  
 coating, intergranular metal phase increases thermal shock resistance, 6811  
 heat shields for lifting reentry vehicles, study, 15509  
 hot rolling of oxide-glass compositions, 12820  
 new metal and metal-ceramic composites, 5194
- Ceramists, nuclear science and technology, proceedings of symposium, 12982
- CERC, *see* Coastal Engineering Research Center.
- Cereals as food, whole grain or enriched, good choice for thrifty family, food value, use, 9342
- Cerebral air embolism, 12793
- Cerebral cortex:  
 man and experimental animals in convulsive states, USSR electron microscopic study, 12752  
 structure, electron microscopic investigation, USSR study, 15348
- Cerebral palsy, *see* Palsy.
- Cerebrovascular system:  
 disease epidemiology workshop, papers, 7084  
 disorders (strokes), 18176
- Cerebrum, *see* Brain.
- Ceremonies (military), *see* Military ceremonies, honors, and salutes.
- Ceremonies (naval), *see* Naval ceremonies, honors, and salutes.
- Cerium:  
 magnesium alloys, intermediate phases between magnesium and Mg<sub>2</sub>Ce, 1414  
 metal, solid-state electromigration of impurities, 5129
- Cermets, *see* Ceramals.
- Certificates, *see* types of certificates, or subjects involved.
- Certification, school certification of full-time attendance for social security purposes, 15743
- Certifying your programs acres, 7293
- Cesium:  
 porous ionizers for contact ionization, status, 11540  
 vapors, expansion and flow characteristics, 2717  
 volume ion production costs in tenuous plasmas, detailed results, 15577
- Cesium isotopes:  
 Cs-137—  
 body measurement on human beings, intercomparison of reliability, 17400  
 distribution in freshwater ponds, 15681  
 gamma rays, differential energy and angle spectra in water and air, 13326  
 in irradiated nuclear fuel, separation technique provides rapid quantitative determination, 12845
- Cestoda, index-catalog, 13205
- Ceylon:  
 accessions list, Library of Congress American Libraries Book Procurement Center, New Delhi, 11337  
 agricultural commodities, agreement, 1641  
 background notes, 1613  
 economy, basic data, 4439  
 mineral industry, minerals yearbook chapter, 8344  
 sailing directions, 17073  
 U.S. travelers, you can assist U.S. balance of payments, 11887
- Chace, Fenner A., Jr., decapod crustaceans from St. Helena Island, South Atlantic, 6945
- Chaco Canyon National Monument, general information, 1532
- Chad:  
 background notes, 1614  
 labor conditions, 1369  
 Niger boundary, study, 1633  
 Peace Corps volunteers, agreement, 2925
- Chafe, Wallace L., Seneca morphology and dictionary, 13001
- Chafers, *see* Beetles.
- Chagas' disease, *see* Trypanosomiasis.
- Chai-ho Hay Chn, *see* Chu Chat-Ho Hay.
- Chain stores, *see* Stores.
- Chains, Federal item identification guides for supply cataloging, supplements, 3287
- Chains (biochemical), *see* Biochemistry.
- Chairs, wood folding, without arms, Federal standard, 6314
- Chalcid flies:  
 alfalfa seed chalcid, procedures for screening and testing alfalfa for resistance, 14733
- Eurytoma in America north of Mexico, revision, 8536
- Challenge Experimental Forest, broadcast seeding ponderosa pine, progress report, 16660
- Challenge of crime in free society, report by President's Commission, 7044
- Chamberlayne, Earl C., relief, 12350
- Chambers, Harriet C., relief, 4495
- Chambers, Washington Irving, papers in Library of Congress, register, 11340
- Chamizal tract:  
 construct border highway along U.S. bank of Rio Grande—  
 law, 499  
 reports, 630, 701, 904
- Champlin, Jerry B. F., porous permeable rock for nuclear waste disposal, 9778
- Chan, Kwok-Long, electron densities and scale heights in topside ionosphere, 2617, 16930
- Chance to help, story of SWEAT.
- Chancelleries:  
 foreign sites in D.C., commissioners to acquire—  
 hearings, 6033  
 report, 7701
- Chancellorsville, Battle of, where hundred thousand fell, 1533
- Chanceries, *see* Chancelleries.
- Chang, Kyong Hwan, relief, 12346

Chang, Mary T., photography, PACF basic bibliography, 8867  
 Chang-You Wu, *see* Wu, Chang-You.  
 Changing the hem in dress or skirt, 7283  
 Changing the pecking order, 17716  
 Channel catfish, *see* Catfish.  
 Channels:  
     automatic switching device, 9849  
     communication, monitor assurance availability and quality, 8460  
     convection boiling inside channels, study, 7430-31  
     heated vertical, low-pressure steam-water flow, final report, 7430  
     natural, roughness characteristics, 17833  
     sediment transport in alluvial channels (series), 16695  
     velocity-head coefficients in open channels, 1133  
 Channels of technology acquisition in commercial firms and NASA dissemination program, 14375  
 Chaparral:  
     communities, moisture-retention capacity of litter, Arizona, 14112  
     picloram herbicide for killing species, preliminary rating, 8085  
 Chaplains:  
     Naval Reserve, handbook, change, 8580  
     Navy, public affairs handbook, 13028  
     VA workshops 1966 (papers), 15817  
 Chapman, Andrew J., arc-tunnel evaluation of some ablative heat shield materials for X-15-2, 5238  
 Chappelle, Daniel E., computer program for calculating allowable cut using area-volume check method, 8080  
 Char, carbon disulfide bench-scale production, 5127  
 Characidae, South American fishes of subtribe Nannostomina, 8536  
 Character:  
     describing airman performance in administrative career ladder by identifying patterns of trait ratings, 11952  
     rodent ethology, with emphasis on evolution of social behavior, comparative study, 15603  
 Characteristics and trends of clients rehabilitated, 8784  
 Characters (graphic symbols):  
     alphanumeric characters, etc., legibility, reference handbook, 6917  
 Charcoal, organic loading, NMR method for determining, 14597  
 Charge storage effects in mylar resulting from electron irradiation, 2610  
 Charge transfer, halogen-organic complex, primary cells utilizes, 6837  
 Chariot Project, *see* Project Chariot (nuclear excavation).  
 Charitable institutions:  
     tax-exempt foundations, impact—  
         on economy—  
             committee prints, 4562, 10679  
             hearings, print additional copies, reports, 13653, 13820  
         on small business, hearings, print additional copies, reports, 13653, 13820  
 Charitable trusts:  
     tax-exempt, impact on economy—  
         committee prints, 4562, 10679  
         hearings, print additional copies, reports, 13653, 13820  
 Charles M. Russell National Wildlife Range, general information, 2279  
 Charleston, S.C., harbor, tidal current charts, 14874  
 Charleston, W. Va., area wage survey, 12771  
 Charleston Naval Shipyard, employees relief, 315, 566, 846  
 Charlie (ocean station), *see* Weather stations.  
 Charlotte, N.C., area wage survey, 14287  
 Charly, Harry T., beginning Russian 2, study guide, 974

Charnell, Robert L., trade wind zone oceanography pilot study, Townsend Cromwell cruises, etc., 16627-632  
 Charring ablators, *see* Ablators.  
 Charring rate of selected woods, transverse to grain, 11132  
 Chars, chloroform extractions of coals and chars, 12826  
 Charters:  
     American Academy in Rome, amend—  
         law, 16135  
         report, 14966  
     Conference of State Societies, amend act, report, 9132  
     Federal, consideration, authorization, report, 4601  
     Federal mutual savings banks, legislation, hearings, 15019  
     Georgetown University, amend to clarify corporate name—  
         law, 370  
         report, 4501  
     Organization of American States, protocol of amendment, text, 10703  
     United Nations, amendment—  
         message from the President, 4574  
         report, 9189  
 Charts:  
     color, slide rule-type, predicts reproduced photo tones, 11436  
     graphic charting techniques for production surveillance, training manual, Defense Supply Agency, 10891  
     handbook of agricultural charts, 17306  
     sold by Superintendent of Documents, price list, 7058  
     strip chart recorder time notation, technique, 12912  
     system simplifies identification of complex design assemblies, 1458  
     *see also* Maps and charts—Organization charts—also subjects.  
 Chase, Helen C., international comparison of perinatal and infant mortality, United States and West European countries, 8659  
 Chase, William W.:  
     one-room schoolhouse and how it grew, 10938  
     schoolhouses for big cities, 15217  
 Chattahoochee River, and tributaries, pollution of interstate waters, conference, proceedings, 2271  
 Chattanooga, Tenn., area wage survey, 5062  
 Chattanooga shale, *see* Shale.  
 Chaves, Juan F., relief, 10535, 13514, 13762  
 Chavez, Dennis, statue, acceptance, proceedings, 4570  
 Chayt, G., NELIAC-N computer program to calculate components of earth's magnetic field, 17083  
 Che Yim Loh, *see* Loh, Che Yim.  
 Check valves, *see* Valves.  
 Checklists:  
     business service, 3069  
     State publications, monthly, 3569  
     *see also* names of departments, etc., issuing check lists—also subjects.  
 Checks:  
     and other items, collection, regulation, revision, 14044  
     check-credit plans, development and implications (remarks), 14037  
     Government, delivery to addresses outside U.S., regulations, 8771  
 Cheddar cheese, *see* Cheese.  
 Chediak, Antonio B., relief, 309, 593, 867  
 Cheek, Chandler S.:  
     laboratory profile of 283 healthy adult males, 7347  
     transmission characteristics of auto-analyzer colorimeter filters, determination, 7352  
 Cheek, Rosemary J., inulin and PAH stability in frozen plasma utilizing improved automated inulin technique, 4185

**Cheese:**  
and cheese products plants, sanitary standards, military standard, 9376  
cheddar, how to buy, 13226  
good choice for thrifty family, food value, use, recipes, 9335  
laws and regulations affecting cheese industry, summary, errata, 1680

**Chehalls Indians:**  
Upper and Lower Tribes, disposition of funds—law, 17559  
reports, 13627, 13830, 16291

**Chemical analysis:**  
body fluids, apparatus for automobile microanalysis, 2646  
instruments, industrial plant equipment handbook, 4673  
iron compounds, shift in Mossbauer spectroscopy standard, 15588  
procedures for metals, alloys, and other materials of research, 9985  
sedimentary rocks in Colorado, Kansas, Montana, etc., 14172  
semiconductors, status of ultrachemical analysis, 11467  
*see also* Electrochemical analysis—*also* names of substances analyzed.

**Chemical elements:**  
minor in alluvial magnetite from Inner Piedmont belt, N.C. and S.C., 8172  
occurrence of selected minor elements in waters of California, 11186  
*see also* Transition elements.

**Chemical equilibrium, *see* Equilibrium.**

**Chemical industries, *see* Chemicals.**

**Chemical milling, gage of 6.5% Si-Fe sheet chemically reduced, 2624**

**Chemical reactions:**  
bimolecular, in gas mixture, kinetic theory, 6909  
biochemical reactions, ultraweak luminescence accompanying, 14502  
chemical kinetics, effects on exhaust-nozzle performance, computer program for determining, 15575  
iron blast furnace thermochemical reduction zone, developing mathematical model, 14334  
manganese with silica, 6684  
tungsten-cobalt alloys with oxygen at 1,000° and 1,100°K, 14352

**Chemical reactors, *see* Reactors (atomic).**

**Chemical reference handbook, 15936**

**Chemical regeneration of emitter surface increases thermionic diode life, 1445**

**Chemical smoke generator units, and smoke operations, 10260**

**Chemical warfare:**  
defense, Army field manual, 1758  
field CBR collective protection, Army technical manual, 5740  
neuroparalytic and neuropsychic (psychochemical) agents, comparison, 8249  
protective clothing, technical manual, 15946  
V-type psychochemical warfare agents, present status, Rumanian study, 4990

**Chemicals:**  
agricultural, registered pesticides, summary of uses, supplement, 8815  
applicator for precision placement of chemicals in soil, 1673  
benzenoid, imports, 17253  
chemical impurity data on artificial graphite, 18040  
chemical plants, investment and operating costs, bibliography, 14328  
chemical safety data sheet, CDS IS series, 9682-83  
chemical sealing of soils, feasibility study, 17849  
chemicals and chemical products, Federal item identification guides for supply cataloging supplements, 3290  
coal, mineral industry survey, 15462

**Chemicals—Continued**

compounds, authorized for use under USDA poultry, meat, rabbit, and egg products inspection programs, list, 10878, 16445  
displacement of protons in double-bond, rule for estimating, 12727  
dry fire-extinguishing powders, determining specific surface, permeability and elutriation methods, 11678  
fire retardant, on woody fuels, testing effectiveness developed, 15288  
gas flow in chemical nonequilibrium, numerical integration methods for computing, 15568  
genetic effect when combined with ionizing radiation, mutagenic activity, USSR studies, 2438  
industrial, industry wage survey, 2502  
industry, efficient ways of conducting major repairs, USSR study, 2473  
industry reports, 3092  
inorganic, current industrial reports, 3169, 8939, 10354  
lithographic, military standard, 9377  
marking fish, 4812  
NASA contributions to use of plasma jet technology in chemical processing, 12867  
new industrial, toxicology, USSR study, 11284  
poisonous, properties and uses, USSR study, 12680  
production, all-Union scientific-technical conference for automation, 2454  
products manufacturing machinery, industrial plant equipment handbook, 7851  
quality of surface water in Allegheny River basin, Pa. and N.Y., 8180  
range weeds control, handbook, 4102  
reference handbook, field manual, 15936  
research in atmosphere purification and control on nuclear-powered submarines, annual progress report, 17084  
residues in milk removed from commercial market, indemnity payments to dairy farmers, extend—  
law, 16140  
reports, 14981, 15088  
role in chemical processing in national economy of Hungary, 1233  
rubber-processing chemicals, production and sales, 15807  
treatment of slash decomposition, laboratory tests fail to confirm acceleration, 8086  
USSR industrial development, translations, chemical industry and machinery, 4016  
weed control in 2-year old walnut planting, 14098  
yield determinations in radiochemistry, 13331  
*see also* Organic compounds.

**Chemistry:**  
aluminum in natural water (series), 15313  
analytical—  
Bulgaria and abroad, current status and prospects for development, 1231  
instrumentation, survey, 16933  
meeting, Oct. 7-8, 1965, Albuquerque, N. Mex., proceedings, 5768  
applied, Soviet research, 4979  
automated, continuous flow, in-line fractionation and exchange of volatile solvents, 75  
carbon compounds, classification definitions, 18133  
chemical nature of organic matter in waters of major rivers in USSR, 9614  
chemical physics, problems, USSR study, 11257  
clinical, laboratory procedures, 10221  
Communist Chinese abstracts, 3116  
crystal, role of Bulgarian scientists, 1159  
East European abstracts, 3218  
educational activities, USSR studies, 1341



- Chemistry—Continued**  
fertilizers, pesticides, and salts, research, USSR study, 15350  
journal of research, National Bureau of Standards, 3453  
macromolecular, electron spin resonance research conducted in Hungary, report, 11256  
noble gases, 17408  
physico-chemical modeling of information and thought processes, USSR study, 1272  
reconnaissance of surface waters quality of Neches River basin, Tex., 17830  
requirements of food additive petitions, FDA guidelines, 2285  
USSR abstracts, 4026  
see also Cytochemistry—Geochemistry—Histochemistry—Organic chemistry—Physical chemistry.
- Chemists:**  
examination announcement, amendment, 4388  
FDA chemist, career information, 11093  
pay, national survey, 2507
- Chemosterilants:**  
house fly, materials evaluated at Orlando and Gainesville, Fla., 14736  
to control bark beetles, 14108
- Chemotherapy:**  
cancer abstracts (periodical), 3075  
cancer chemotherapy development in Soviet Union, 17878  
cancer chemotherapy reports (periodical), 3076
- Chen, Li Tsu (Nako), relief, 774**
- Chene Bayou:**  
engineer report—  
departmental edition, 15224  
document edition, 14930
- Chepachet quadrangle, R.L., bedrock geology, 16685**
- Cherkinskiy, Samuil N., honored, USSR article, 8252**
- Chernick, Cedric L., chemistry of noble gases, 17408**
- Chernock, W. P., UO<sub>2</sub> fuel systems for water reactor applications, 8902**
- Cherokee Indians:**  
Chillicothe Indian School lands—  
convey to, report, 15122  
hold in trust, report, 13632  
Eastern, enrollment records, pamphlet accompanying microcopy, 18072  
Oklahoma, Muskogean charm songs, 6973
- Cherries:**  
growing, east of Rocky Mountains, 5628  
marketing orders, amend law, 13693  
marketing orders for freezing and canning, issuance without approval of processors, hearing, 712  
production, use, value, by States, 14695  
pruning open-grown black cherry, 17803
- Chesapeake Bay:**  
additional bridges and tunnels across or under, Maryland to construct, etc., report, 16273  
fisheries, 1965 annual summary, 9504  
storm warning facilities chart, 14720
- Chestnut oak, see Oak.**
- Cheyenne County, Colo., Big Sandy Creek Valley, geology and ground-water resources, 11191**
- Cheyenne Indians:**  
convey certain federally owned lands to, report, 13835  
judgment funds, disposition, reports, 15007, 15118
- Chi-Spalding method, see Spalding-Chi method.**
- Chiang, C. L., variance and covariance of life table functions estimated from sample of deaths, 8657**
- Chiarappa, Daniel, analysis and design of space vehicle flight control systems, 12874**
- Chiavette, Kenneth J., wildlife review, 4068**
- Chicago, Ill.:**  
area, sonic-boom measurements during bomber training operations, 1481  
area wage survey, 14293  
Board of Trade, futures trading and open contracts, 3368  
fresh fruit and vegetable prices, 10203  
Mercantile Exchange, futures trading and open contracts in eggs and butter, 3369  
war on poverty, examination, hearings, 17665  
wholesale food distribution facilities, 7278
- Chicago, Burlington and Quincy RR., accident, 1238**
- Chicago Sanitary and Ship Canal, Willow Springs and Sag Junction diversions, hydraulic model investigation, 10962**
- Chickens:**  
broilers, commercial production, etc., 8848, 11875-876  
broiler industry, economic study of structure, practices and problems, 17103  
brooding, with infrared lamps, 15857  
egg-type hatcheries, costs and economics of scale, 5649  
frying, prices and price spreads in 12 major cities, 11943  
home flock, 10178  
layers and egg production, 10107  
monthly egg production, 5684  
national improvement plan, ROP candidate flocks and list of breeders, etc., 7243  
number raised, 14694  
production, disposition, cash receipts, gross income, 8848, 11875  
pullet chicks for broiler hatchery supply flocks, 3787  
tested by official State agencies, monthly report, 3981
- Chicopee, Mass., housing discrimination, report, 4385**
- Chicot, Lake:**  
improvements, engineer report—  
departmental edition, 17731  
document edition, 17568
- Chicot County, Ark., soil survey report, 11813**
- Chidake, Myer R., starting and managing carwash, 15733**
- Chiggers, how to fight them, 4114**
- Child care, see Children.**
- Child development, see Children.**
- Child health, see Children.**
- Child labor:**  
bulletin, 8785  
Kirgiz cotton and tobacco fields, article deprecates use of children, USSR study, 1172  
laws, State, summary, 5047
- Child placing:**  
District of Columbia, foster home care, provide, report, 16383  
foster care, national trends, etc., 10401  
Child welfare, see Children.
- Child welfare institutions:**  
cost analysis project, analyzing time, costs, and operations, 7231  
public, for delinquent children, personnel and personnel practices, survey, 4367  
residential, in United States, number and kinds, 13415
- Childbearing, see Pregnancy.**
- Childers, Ralph E., manual of procedures and methods for calculating costs of desalting and conventional water systems, 12645**
- Children:**  
aid to families with dependent children, Gary, Ind., 13435  
assessing feasibility of mother's employment and adequacy of child-care plans, criteria, 13414  
beautiful junk, inexpensive materials for preschool program, 17709



# INDEX 1967

## Children—Continued

born abroad, U.S. citizenship, count employment of parent by U.S. Government as physical presence requirement—  
law, 474  
reports, 878, 876  
basing school kids to suburbs, 10928  
child abuse reporting laws, tabular view, 7511  
child care services, working mothers and need for, 10144  
child development center, daily program, manual for teachers, 15204  
child nutrition act of 1966—  
closing nutrition gap, 15871  
law, 373  
report, 663  
child nutrition act of 1966, amend, hearings, 9139  
child protection act of 1966—  
hearings, 2112  
law, 466  
child welfare statistics, 1896, 16043  
childhood leukemia, pamphlet for parents, 18157  
children in hospital, planning for, 11758  
children of divorced or separated parents, income tax support test—  
law, 16134  
reports, 2022, 2099, 7693, 15091  
day care and working mother, magnitude of problem on national scale (talk), 11908  
daytime programs, basic goals and common elements, 4363  
deceased veterans, liberalize payments, law, 443  
dependent, aid to families—  
protective payments, report, 9060  
tables on percent of basic needs met, 17196  
dependent, of unemployed parents—  
aid to families, 3988  
Ohio, work registration under Federal State aid, Welfare Administration, GAO review, 11157  
dependent, public assistance, families, money payments, 4751  
dependents of Defense Dept. personnel, overseas air transportation, GAO review, 9545  
deprivation, changing course of familial retardation, 8966  
disadvantaged—  
education, bibliography, 4709  
Head Start child development programs—  
how to apply for, instructions, 6163  
manual of policies and instructions, 16483  
Head Start child development programs—  
physician's role, 6165  
points for parents, 10912  
national conference on education, 1008  
school programs under ESEA grants, 1968 application forms, instructions, 16503  
summer camp, opportunities, expand, hearings, 15024, 15171, 16427, 17601  
summer education, 4720  
District of Columbia, census, amend act, report, 16378  
District of Columbia uniform gifts to minors act, permitting deposit in savings and loan associations, etc., report, 13639  
education in federally affected areas, annual report, 6175  
education, prekindergarten, New York State's program, 13962  
exceptional, research programs, studies in progress, 8967  
facts and figures, 7515

## Children—Continued

fair labor standards act provisions, guide, 8785  
Federal aid programs relating to welfare and health, social security amendments of 1967—  
hearings, 15154, 16409  
reports, 14953, 14964  
summary, 15053  
feeding child with a handicap, 13416  
foster care, national trends, etc., 10401  
grouping related to pupil learning, survey of research, 4721  
handicapped—  
education, grant program for preparation of professional personnel, 7897  
manual, 16508  
education, State plan programs, guidelines, 10933  
military medical benefits act of 1966—  
law, 365  
report, 664  
helping parents teach young children, note to agents, 4763  
homemaker service, how it helps children, 7512  
Indian, education, etc., study, authorization, 15137  
interdisciplinary journal for professions serving children, 3093, 14840  
lead poisoning, 16042  
mentally retarded, clinical programs, listing, 5905  
mentally retarded or physically handicapped, of members of Armed Forces, use of private facilities, report, 14941  
minors employed in agriculture under fair labor standards act, as amended in 1966, what crew leaders, etc., should know, 10132  
needy families with children in Cleveland, etc., federally assisted aid program, study, 4386  
Nick the cigarette is nobody's friend, 1895  
nursery-kindergarten enrollment under G, 10937  
nutrition, statutes, compilation, 7262  
old-age beneficiaries of social security, relationship of child beneficiaries, 1603  
pediatrics, Indian Health Division residency program, 1570  
pediatrics, pneumodensography and tachocardiography application, 12748  
pediatrics session, USSR Academy of Medical Sciences, report, 2461  
physical abuse, mandatory reporting by physicians, etc., in D.C., law, 479  
preschool, nutritional status, suggested guidelines for evaluation, 17444  
protection under Federal hazardous substances act, 12552  
research programs, studies in progress, 8967  
Rumanian Socialist Republic, health protection problems, 15361  
school boys and girls, measure before you buy used clothes, 7284  
schoolchildren, transportation in D.C. at reduced fare, increase age, report, 16380  
se habla espanol, help for Spanish-speaking youngsters, 13964  
small, rescue breathing, general information, 5461  
sons and daughters of deceased or disabled veterans, assistance, eligibility, etc., 17285  
special milk program, extend—  
law, 373  
report, 663  
welfare and health programs under social security, amend act, hearings, 7763, 10684  
welfare recommendations, message from the President, 5999

Children—Continued  
 who need protection, bibliography, 1892  
 who will open this child's eyes, VISTA  
 opportunity, 15208  
 widows with children under social security,  
 survey, 2869  
 working women and day care needs, consul-  
 tation, preliminary report, 15820  
 your child from 3 to 4, 7514  
 see also Child labor—Children's litera-  
 ture—Children's homes—Cripples—Day  
 care of children—Juvenile delinquency.

Children's Bureau:  
 publication series, 1894-95, 4365-66, 5906,  
 7512-15, 8966, 10403, 13416, 16042  
 publications, price list, 11713  
 statistical series, 185, 1896, 4367, 12094,  
 16043

Children's homes, children's residential in-  
 stitutions in United States, number and  
 kinds, 13415

Children's literature:  
 children's books, 1966, list, 6622  
 guide to reference sources, 5085  
 Library of Congress, national reference  
 library of children's books, 2532

Childs, G. E., viscosity and thermal conduc-  
 tivity coefficients of dilute nitrogen and  
 oxygen, 5293

Chile:  
 Chilean microlepidoptera, description by  
 Emilio Blanchard, 6970  
 establishing business, 1943  
 foreign trade regulations, 17482  
 gazetteer, official standard names, 8152  
 market for U.S. products, 2417  
 mineral industry, minerals yearbook chap-  
 ter, 12799

Chillicothe, Ohio, see Federal Reformatory,  
 Chillicothe.

Chiloeco Indian School:  
 Indian School Journal (periodical), 3418  
 lands, hold in trust for Cherokee Nation,  
 reports, 13632, 15122

Chimes, see Carillons.

Chimneys and fireplaces, construction, de-  
 sign, etc., 8825

Chimpanzees:  
 normal immaturity, under restraint, physio-  
 logic values, 7351  
 physiological analysis of so-called foresight  
 in chimpanzee, USSR study, 1306

Chin Shee Shiu, see Shiu, Chin Shee.

China:  
 climate, characteristics, classification, etc.,  
 12686  
 coast, sailing directions, change, 15630

Communist—  
 claims of U.S. nationals against regime,  
 determination—  
 law, 484  
 report, 897

Committee of Fishery Research of West  
 Pacific, 7th plenary conference, 9626

cultural revolution as seen by Alberto  
 Moravia, 16736

digest, 3113

economic profile of mainland China,  
 5974, 7588  
 print additional copies, report, 10587

economy, translations, 3950

education in Mao's China, 999

geomorphology meeting, Chinese geo-  
 graphical conference, 1965, collected  
 works, 11255

great leap backward, economic problems,  
 USSR view, 16780

in world economy—  
 hearings, 10493  
 report, 12389  
 law, selected legal sources, guide, 11338

China—Continued

Communist—Continued  
 mineral industry, minerals yearbook  
 chapter, 5115

Mao Tse-tung's anti-economism cam-  
 paign idealizes poverty in China,  
 USSR historian claims, 6582

Mao's cultural revolution, review by  
 USSR's Literary gazette, 12760

nuclear weapons progress, impact on  
 U.S. national security, report, 13542

political and sociological translations,  
 3951

Red Guard press information, 14249

science and technology, translations,  
 3952

scientific abstracts, 3114-23

Sino-Soviet conflict implications, report  
 and hearings, print additional copies,  
 report, 2029

visit described by USSR journalist,  
 6583

foreign relations of U.S., diplomatic papers,  
 China, 1944—  
 departmental edition, 13140  
 document edition, 12192

loess soil, collected works, 5000

Republic—  
 atomic energy, cooperation for civil uses,  
 agreement, 2929  
 background notes, 11819  
 loan of additional destroyer, report,  
 16271  
 loan of vessel, agreement, 15790  
 loan of vessels, extension, agreement,  
 15791  
 maritime matters, liability during pri-  
 vate operation of N.S. Savannah,  
 agreement, 15799  
 trade in cotton textiles, agreement, 2890

China Sea, see South China Sea.

Chinaware, see Tableware.

Chincoteague National Wildlife Refuge:  
 general information, 9517  
 mammals, list, 2277

Chinese:  
 artists, traditions, cultural revolution and  
 Red Cross, transcript of conversation  
 by Soviet sculptors L. Ye, Kerbel' and  
 L. D. Muravin, 4948

Chinese postgraduate students at Voronezh  
 State University, living and study con-  
 ditions, 4954

cooly trade laws, repeal, report, 7684

Chinese gooseberries, tariff classification,  
 amend, reports, 7699, 15105

Chinese language:  
 Chinese dictionaries in all languages, list,  
 7144  
 grammar for component combination in  
 Chinese characters, 5289

Chinese Turkistan, journey to Kashgariya  
 by Mikhail Vasil'yevich Pevtsov, 15426

Ching-chi-chen-chiu (periodical):  
 translations, 3944

Chinn, Kenneth S. K.:  
 effects of diet and altitude on body com-  
 partments of rats, 10295

urinary creatinine excretion as index of  
 fat-free mass composition in rats, 7415

Chippewa Indians:  
 judgment funds, disposition—  
 law, 16139  
 reports, 15113, 16237

land tenure of Rainy Lake Chippewa, be-  
 ginning of 19th century, 6974

Chiricahua National Monument, Ariz., gen-  
 eral information, 14549

Chiropody, regulating practice of podiatry  
 in D.C., amend act, report, 7691

Chiroteuthidae, see Squida.

Chisholm, L. J.:  
 report of 51st National Conference on  
 Weights and Measures, 11583

units of weight and measure, interna-  
 tional metric and U.S. customary,  
 9941

- Chitons and gastropods (Haliotidae through Aedeoidea) from western Pacific Islands, 4890
- Chizhevskiy, A. L.:  
biography, 2480  
space biology pioneer, 12737
- Chlorates, candle as concentrated oxygen source, 14410
- Chlorella:  
mineral nutrient requirements of *Chlorella sorokiniana* in continuous pure culture, 14779  
thermophilic, optimal temperature regimes, USSR study, 1265
- Chlorides:  
human serum, estimation of change during simulated altitude and aerospace flights, 7341  
recovery of manganese as chloride from ores and slags, one-step operation, 11369
- Chlorinated hydrocarbons, see Hydrocarbons.
- Chlorination process produces chlorinated aromatic isocyanate in high yield, 6808
- Chlorine:  
effect of gamma radiation on reaction of anthracite with fluorine and chlorine, 2585  
electrochemical reduction, on carbon in molten lithium chloride-potassium chloride, 17003
- Chloroform, extractions of coals and chars, 12826
- Choate, Grover A., New Mexico's forest resource, 2335
- Chocolate, see Confectionery.
- Cholame, Calif., earthquakes of June-Aug. 1966, surface geologic effects, etc., 9574
- Cholera, see Hog cholera.
- Cholesterol serum, levels of adults, 8661
- Cholinesterase:  
activity, automated method for assay in detection of mild poisoning by pesticides, 13351  
activity of digestive trace, influence of tolbutamide, Rumanian study, 1261  
inhibition, determined following oral feedings of Zectran to mice, 16657  
selective inhibition of nonspecific cholinesterase by some 0,0-diethyl-S-alkylthiophosphates, USSR study, 15402, 16733
- Cholinolytic drugs, effect on biologically dissimilar motor reflexes in monkeys, USSR study, 9641
- Choniomatidae, see Crustaceans.
- Chorioretinal, lesions, produced by thermal radiation, study, 10231
- Christal, Raymond E., selecting a harem and other applications of policy-capturing model, 15893
- Christensen, Edward L.:  
food stores, 7112  
voluntary and cooperative food chains, 10077
- Christensen, J. J., feasibility study on utilization of waste brines from desalination plants, 14196-197
- Christensen, Jay V., midcourse navigation using statistical filter theory, manual theodolite, and symbolic computer control, 6905
- Christmas, 5-cent commemorative postage stamp (poster), 17112
- Christmas Island, see Australia.
- Christmas trees:  
development of plantation of high quality true fir trees, 2292  
tradition and trade, 13216
- Chromates, common names, shipping containers, etc., technical reference, 9735
- Chromatographs:  
gas, cold trap increases sensitivity, 5206  
gas-liquid mass spectrometer, duty-free entry for American Cancer Society, 13775, 14901
- Chromatography:  
determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas, 15312  
gas, absolute entropies prediction from gas chromatographic retention data, 18111  
gas, accurately determines trace hydrazines in aqueous solutions, 15550  
gas chromatographic column enables analysis of propellant hydrazines, 2681  
gas chromatographic-mass spectrometric methods of analysis, review, 13033  
gas, trace contaminants contained in samples from closed environment at 258 mm.hg. analysis, 10234  
paper, electronic circuitry used to automate, 12913  
thin-layer—  
microscope slide loader for laboratory use, 13272  
use for cleanup and confirmation of identity of pesticide residues, 13200  
use for identification of aircraft engine oil components, 11674
- Chromite, recrystallization of chrome spinel, 9775
- Chromium:  
alloy liners for small arms barrels, soundness requirements, military standard, 9378  
iron alloys, preparation, 5364  
mineral industry survey, monthly, 3094  
vanadium-base chromium alloys, properties, 9780
- Chromosomes:  
popular description and animal transplant experiment, USSR study, 1307  
rearrangement, effect of virus, USSR study, 4963
- Chronic diseases, see Diseases.
- Chronology, National Capital Transportation Agency, 6925
- Chrysanthemums:  
growing in home garden, 13224  
production and sales, etc., 10108
- Chrysler Corporation:  
adjustment assistance case pertaining to certain workers, excerpts from Tariff Commission report to Automotive Agreement Adjustment Assistance Board, 10114
- CINDA, improved numerical differencing analyzer program, 15546
- wage chronology, 14285
- Chrysomelids, see Beetles.
- Chrysotile, see Asbestos.
- Chu Chai-Ho Hay, relief, 12228
- Chugging, analysis, effect of propellant-feed-system coupling and hydraulic parameters, 11491
- Chukchi Sea, euryhaline copepod genus *Eurytemora* in waters, 6943
- Chun Moon Hee (H1), relief, 826
- Chung, Kil Ja, relief, 9227
- Church, Frank, United Nations at 21, 7810
- Churches, see names of churches.
- Chute, Newton E., geology of Norwood quadrangle, Norfolk and Suffolk Counties, Mass., 6389
- CI series, 14650
- Cicadas, periodical cicadas, 17-year locusts, 33
- Cicadellidae, see Leafhoppers.
- Cicadelloidea, catalogue, 12
- Cider, apple, making and preserving, 13222
- Cigarettes:  
Nick the cigarette is nobody's friend, information for the young, 1895  
smoking and health characteristics, statistics, 10067  
smoking, chronic bronchitis and emphysema, 5424

**Cigars:**

- Federal excise tax—  
structure, report, 4565
- treatment of State and local taxes for  
computing, report, 9091
- Cilla, structural organization and biochemical  
basis of movement, USSR study, 12696
- Cincinnati, Ohio, area wage survey, 12769
- CINDA, Chrysler improved numerical differ-  
encing analyzer computer program, 15546
- Cini, Marcello, Italian physicist, in North  
Vietnam tells of culture and civilization  
as bombs fall, 12699
- Circuit breakers, *see* Electric circuit break-  
ers.
- Circuit Courts of Appeals, uniform civil ap-  
pellate rules, law, 477
- Circuit judges, *see* Judges.
- Circuits:  
analog, for 2-dimensional distributed elas-  
tic structures, 5169
- asynchronous, sequential, algorithm for  
synthesis, 1473
- automatic, calibration of flowmeter against  
liquid-level gage reference, 17986
- circuit prevents overcharging of secondary  
cell batteries, 1471
- closed circuit TV system monitors welding  
operations, 12893
- collector/collector guard ring balancing  
circuit eliminates edge effects, 2673
- communication, spare Government-owned  
in Europe, use by Defense Dept., GAO  
report, 16672
- computer program detects transient mal-  
functions in switching circuits, 9826
- control, ensures solar cell operation at  
maximum power, 9832
- digital system provides superregulation of  
nanosecond amplifier-discriminator cir-  
cuit, 5147
- electronic circuit delivers pulse of high  
interval stability, 2636
- electronic circuitry used to automate  
paper chromatography, 12913
- electronic, handbook, change, 2853
- electronic, NASA report, 5193
- electronic, provides accurate sensing and  
control of dc voltage, 8396
- embedment and other metallurgical and  
mechanical characteristics of cross-  
wire resistance welds, 2698
- fluid logic control circuit operates nutator  
actuator motor, 6759
- heater control, provides both fast and  
proportional control, 11445
- heterodyne phase shifter with calibrated  
phase shift, design and construction,  
16977
- improved fluid control, operates on low  
power input, 9827
- increase capability of hysteresis syn-  
chronous motor, 11440
- integrated devices, high reliability screen-  
ing, 9800
- limit, prevents overdriving of operational  
amplifier, 17925
- linear ac electrical and electronic circuits  
for steady-state conditions, computer  
programs for numerically analyzing,  
16962
- linear, analysis program for IBM 1620  
Monitor II, etc., 15525
- logic circuitry used to automatically test  
shielded cables, 6819
- memory, bipolar current driver, 2627
- micropower logic, improved, 14461
- monitoring, accurately measures move-  
ment of solenoid valve, 2676
- multiple meter monitoring, served by  
single alarm, 17980
- one-count memory circuit prevents ma-  
chine mode interaction, 6697
- one-transistor circuit boosts pulse ampli-  
tude, 1464

**Circuits—Continued**

- overcurrent protection provided for push-  
pull amplifier, 16948
- point-source light sensor, insensitive to  
background light, 2637
- power, optimum stepped-wave output in  
3-phase single-way static inverters,  
10008
- preregulator feedback circuit utilizes light  
actuated switch, 2663
- printed, terms and definitions, military  
standard, 16465
- process produces accurate registry be-  
tween circuit board prints, 8476
- sensitive bridge circuit measures con-  
ductance of low-conductivity electrolyte  
solutions, 16880
- SiC/Si diode trigger circuit provides auto-  
matic range switching for log amplifier,  
17957
- silicon integrated, improving contact  
bonds, 16965
- solid state circuit averages multiple sig-  
nals and rejects those varying signifi-  
cantly from the average, 15492
- solid state, controls direction, speed, and  
braking of dc motor, 1467
- solid state, switches ac load, 1462
- strain gage circuitry provides fatigue  
testing machine with accurate cycle  
count, 11391
- Subminiature deflection circuit operates  
integrated sweep circuits in TV camera,  
11479
- suppression techniques evaluated, 1451
- switching-type regulator circuit has in-  
creased efficiency, 12910
- trigger circuit multiplies pulse width  
modulation, etc., 9828
- triple modular redundancy computer  
operation improved, 9848
- univibrator, modified, compensates for  
output timing errors, 12834
- variable-pulse switching circuit controls  
solenoid-valve actuations, 8456
- Circulars, *see* names of departments, etc.,  
issuing circulars.
- Circulation of blood, *see* Blood—Pulmonary  
circulation.
- Circulatory system, *see* Cardiovascular sys-  
tem.
- Cirrus clouds, *see* Clouds.
- Cirugía de emergencia en guerra, manual  
de la OTAN, 9366
- CISR, *see* Center for International Systems  
Research.
- Cities and towns:  
airport influence on community economy,  
14786
- American city, rediscovery (address),  
16716
- Americans at home, volunteer program of  
local communities, 10126
- aviation demand and airport facility re-  
quirement forecasts through 1980 for  
large air transportation hubs, 15904
- building a better America, 16709
- building communities with new jobs, 2159
- campus and community (address), 15210
- challenge of our cities (addresses), 15317
- cities are people, too (remarks), 12993
- cities in crisis, the challenge of change,  
10133
- cities on the move, HUD's urban transpor-  
tation programs help urbanites move  
into 21st century, 17837
- city and the city university (address),  
11196
- city government finances, 13399
- city worker's family budget for moderate  
living standard, 17894
- clean air for your community, 2809, 11722
- communities and youth, commitment to  
opportunity (address), 17839

# INDEX 1967

## Cities and towns—Continued

communities in action, war on poverty, 3124-25  
 communities of tomorrow (address), 15834  
 community action program pamphlet series, 2163-67  
 community care of mentally ill, annotated bibliography, 1590  
 community improvement, workable program, guide for citizens advisory committees, 9579  
 community service and continuing education, newsletter, 3126  
 comprehensive care services in your community, 5426  
 consumer expenditures and income 1960-61—  
   total urban and rural, tables, 2494  
   urban, tables, 2492  
 consumer price index, city average, 3143  
 cooperative ventures in urban America, urban development intergovernmental awards program, 14187  
 cooperatives and rural-urban balance (remarks), 13220  
 creative federalism in the city (address), 16707  
 creek and the city, urban pressures on natural stream, Rock Creek and Washington, D.C., 4913  
 data book, 1967—  
   departmental edition, 12041  
   document edition, 12201  
 demonstration cities act, model neighborhoods, 6430  
 demonstration cities and metropolitan development act of 1966—  
   law, 465  
   summary, section-by-section analysis, legislative history, and conference report, 725  
   title 1, program guide, 4909  
 demonstration city program and architect (address), 2735  
 differential assessment of farmland, experience in Maryland, 17712  
 economic environment and urban development (paper), 13929  
 EDA program for building communities with jobs, 13928  
 EDA program to help build communities with jobs (address), 17708  
 facilitating air-truck movements for smaller community (remarks), 17447  
 Federal beautification program, questions and answers, 4902  
 Federal-local relationships in model cities program (remarks), 2379  
 financial institutions and urban rehabilitation (remarks), 16590  
 first-rate cities, first-rate schools (address), 12464  
 goals for urban America (address), 17022  
 health, securing in our urban future, 7091  
 housing and urban development, Federal programs, progress report, 9309  
 housing units authorized in metropolitan areas, construction reports, 8937  
 impact of pollution abatement regulations on municipalities (address), 1580  
 improving quality of urban life, program guide, 4909  
 large scale maps for city, construction, and technical planning, requirements, 4981  
 local-service airline passengers, letter to mayors, 3937  
 location, etc., of segments of Interstate highway system, GAO report, 15299  
 major metropolitan areas, crime and law enforcement studies, 13060

## Cities and towns—Continued

mass transportation amendments of 1966, reports, 620, 628  
 mass transportation program, emergency provisions, temporary extension—  
   law, 13522  
   reports, 12388, 13634  
 metropolitan America, challenge to federalism, study by Advisory Commission on Intergovernmental Relations, 2048  
 print additional copies, reports, 10590, 10785  
 metropolitan areas—  
   households with UHF and color television sets, current housing report, 15989  
   occupational earnings and wage trends, 16830  
   population, provisional estimates, 177, 16013  
   standard statistical list, with population, 17438  
   standard statistical, titles and definitions, 10326  
   statistics, 16032  
 metropolitan development and budgeting, step toward creative federalism (remarks), 16714  
 metropolitan planning program relationships to air resource management, 13084  
 metropolitan population, marital and family characteristics, 10360  
 microorganisms in 2 types of air masses at 690 meters over a city, 66  
 model cities, housing and renewal programs (speech), 6436  
 model cities program, educational dimensions (remarks), 11198  
 model neighborhoods and demonstration cities (address), 2386  
 monetary policy and municipal finance (remarks), 9494  
 motor vehicle abandonment in U.S. urban areas, 7451  
 Neighborhood Youth Corps in inner-city, 14729  
 occupational earnings and wage trends in metropolitan areas, 11334, 17899  
 planning, programming, budgeting system (remarks), 17842  
 police and community, dynamics of their relationship in changing society, President's Commission on Law Enforcement and Administration of Justice, 13061  
 poverty, recommendations, message from the President, 7612  
 President's programs for combatting Ghetto-polls (address), 16094  
 private enterprise and the city (address), 9580  
 programs for better cities (address), 16715  
 rehabilitation agency and community work, source book for professional training, 7222  
 rural-urban balance (address), 7280  
 schoolhouses in the city, 13963  
 schoolhouses for big cities, 15217  
 science and the city, 6432  
 small business problems in smaller cities and towns, hearings, 10678  
 small business problems in urban areas, report, 4512  
 social requirements for urban design (address), 11209  
 soil surveys, community planning and resource development, report, 2083  
 standard metropolitan statistical areas, estimates of population, 14831  
 teachers, long-term trends in urban compensation, 5080  
 transit usage, modal split, documentation of methods for estimating, 7100  
 transportation, improvement (remarks), 9583

Cities and towns—Continued  
 transportation planning programs, urban-  
 ized area, directory, 17175  
 urban affairs, selected readings, 8200  
 urban affairs, study, expenses, reports,  
 4594, 4625  
 urban America, goals and problems, mate-  
 rials, compilation, 14921  
 urban and industrial health, environ-  
 mental health series, 15683-684  
 urban areas—  
 beautification aids as provided under  
 housing and urban development act,  
 6415  
 Denver, Colo., mineral aggregate indus-  
 try, impact of urbanization, 6637  
 urban housing market analysis, 11205  
 urban planning assistance program, report,  
 3823  
 urban research study centers, directory,  
 14919  
 urban studies, Cleveland, 4386  
 wage indexes, long term trend data for  
 selected occupations, 5059  
 wage trends for occupational groups, 17901  
 wages and related benefits—  
 occupational earnings, supplementary  
 practices, 5056, 16814  
 United States and regional summaries,  
 14284  
 zoning in Appalachia, suggestions, 7884  
*see also* Redevelopment (city planning,  
 etc.)—*also* subjects.  
 Citizens' Advisory Committee on Recreation  
 and Natural Beauty, general information,  
 8616  
 Citizens Advisory Council on Status of  
 Women, annual report, 15323  
 Citizens of United States:  
 advisory committees for workable program  
 for community improvement, guide, 9579  
 citizen abroad, tax guide, 2414  
 customs hints for returning residents,  
 10882  
 facts, from recent Census Bureau surveys,  
 7491  
 marriage documentary requirements in  
 Italy, agreement, 15767  
 Citizenship:  
 becoming a citizen series—  
 our American way of life, 11211  
 our Government, 12630  
 our United States, 12629  
 Canal Zone, authorize issuance of certi-  
 ficates—  
 law, 424  
 report, 923  
 citizenship and strawberry jam, FDA's  
 protective role in food industry, etc.,  
 15272  
 Federal textbooks on citizenship, 11211,  
 12629-632, 14190-191, 15320, 17844  
 periods spent abroad in employment of  
 U.S. Government, etc., to count as  
 physical presence requirement—  
 law, 474  
 reports, 678, 876  
 publications, price lists, 10040, 15672  
 Puerto Rico, 50th anniversary, report,  
 9263  
*see also* Naturalization.  
 Citizenship Day, bulletin, 14189  
 Citrus fruit:  
 consumer purchases of fruit, juices, drinks,  
 and other products (periodical), 3145  
 foreign agriculture circulars, 3345  
 production, use, value, by States, 1909-10,  
 1965-65, revised estimates, 5679  
 quality evaluation of U.S. grown, in Euro-  
 pean market, 5616  
 City planners, urban planner, examination  
 announcement, 12115, 13444  
 City planning, *see* Redevelopment (city  
 planning, etc.)

Civics:  
 national defense education act—  
 financial assistance guidelines to  
 strengthen instruction, 13956  
 institutes for advanced study, handbook  
 for directors, 1003  
 loans to private nonprofit elementary  
 and secondary schools for equipment  
 and materials, 1007  
 Civil Aeromedical Research Institute, aero-  
 medical research facilities, acquisition and  
 use, Federal Aviation Administration,  
 Transportation Department, GAO review,  
 8139  
 Civil Aeronautics Board:  
 annual report, 5907  
 applications, etc., filed with CAB, 3034  
 appropriations, 1968—  
 hearings, 9145, 15147  
 reports, 10600, 15131  
 career opportunities for—  
 accountants, economists, and transpor-  
 tation analysts, 17448  
 attorneys, 16045  
 functions (remarks), 8974  
 functions, etc., 8969  
 history and role in Federal regulatory  
 scheme of air transportation (remarks),  
 1899  
 letter to mayor of each city with local air-  
 line service (periodical), 3937  
 little blue book of aeronautical statutes  
 and related material (remarks), 8971  
 orders, economic E series, 3661  
 organization (remarks), 7522  
 press releases, 3709  
 procedural regulations, 7520  
 publications, list, 5908  
 regional air cargo workshop (periodical),  
 3813  
 regulations, 188, 3815, 5910, 7521, 12095,  
 14841, 16048  
 economic, ER series, 3228  
 reports, economic and safety enforcement  
 cases, 187, 16046  
 cumulative index-digest, 8970  
 responsibilities for economic regulation  
 and promotion of air transportation (re-  
 marks), 1900  
 transfer—  
 law, 389  
 report, 906  
 United States air carriers, list, 5909, 13417  
 weekly summary of orders and regulations,  
 4059  
 Civil affairs:  
 joint manual, Army field manual, 4209  
 military assistance to civil authorities,  
 7383  
 Civil Air Patrol, air reservist (periodical),  
 3011  
 Civil aircraft, *see* Aircraft.  
 Civil aviation, *see* Aeronautics.  
 Civil defense, *see* Civilian defense.  
 Civil Defense Office:  
 annual report, 7524  
 annual statistical report, 8976  
 civil defense management course, self-  
 teaching materials, nuclear weapons  
 effects, 13427  
 FG series, 4382, 5914-15, 13424, 17450  
 handbook series, 5916, 13425, 14843,  
 16050-52, 17451  
 information bulletin, 3420  
 labor courses, references, 14845  
 leaflets, 10407, 16053  
 miscellaneous publications MP series, 196-  
 198, 1903, 4383, 7527, 8980, 12098,  
 13426, 14844-845, 16054-55, 17452  
 publications index, 196, 7527  
 student manual SM series, 1905, 7528,  
 14846, 16056-57  
 technical report, 4384, 5917, 7529-30,  
 8981, 14847, 16058-60  
 Civil disturbances, *see* Riots.



# INDEX 1967

Civil engineering:  
 general, maintenance and operation of electric power generating plants, Air Force manual, 8855  
 planning and programming, Air Force manual, 1727  
 research of TVA Engineering Laboratory, 17260  
 Civil Engineering Institute, Brest. *see* Brest Civil Engineering Institute, USSR.  
 Civil engineers:  
 Air Force civil engineer (periodical), 3008  
 Navy civil engineer (periodical), 3613  
 Civil Engineer Corps, Navy:  
 100th anniversary—  
 booklet, 6993  
 mea, methods, materials, booklet, 14564  
 commemorative medal, law, 487  
 Civil liabilities, soldiers' and sailors' civil relief act of 1940 and amendments, compilation, 1994  
 Civil procedure:  
 civil action venue amendment, law, 428  
 judicial and extrajudicial documents in civil or commercial matters, service abroad, convention—  
 message from the President, 6060  
 report, 7774  
 judicial procedure, agreement with Sierra Leone, 7156  
 temporary transfer to single district for coordinated or consolidated pretrial proceedings pending in different districts which involve one or more common questions of fact, hearings, 2054  
 U.S. Courts of Appeals, uniform civil appellate rules, law, 477  
 Civil rights:  
 act of 1964—  
 compliance officers manual, procedures under title 6, 1906  
 cutoff of welfare funds to Alabama, hearings, 6096  
 interpretations issued, etc., by Equal Employment Opportunity Commission, digest, 3205  
 act of 1966, report, 4498  
 act of 1967, message from the President, 12199  
 administration of justice in Starr County, Tex., 13433  
 Civil rights and housing, hearings, 17641  
 civil rights and race relations, seminar, 2879  
 civil status, women, 1966 State legislation, highlights, 11910  
 employment, administration of justice, and health services in Memphis-Shelby County, Tenn., report, 14851  
 housing and urban renewal in Nashville-Davidson County metropolitan area, 12099  
 housing, education, etc., hearings before Civil Rights Commission, 10408-409  
 human rights conventions, hearings, 7806, 16410  
 Interference with, penalties, amend U.S. Code—  
 hearings, 17658  
 reports, 12283, 14951  
 movement, implications for human development, 2879  
 nursing homes and title 6 of act of 1964, 1584, 13183  
 prose, poetry and black power (address), 9407  
 questions and answers, guide, 10913  
 school desegregation, guidelines, hearings, 4548  
 school desegregation plans, revised statement of policies, 2190  
 sex discrimination in employment, Federal and State laws, 17295  
 status of Spanish-speaking Americans in Kleberg, Nueces, and San Patricio Counties, Tex., 14848

Civil rights—Continued  
 veterans, State laws, digests, 16345  
*see also* Privacy.  
 Civil Rights Commission:  
 appropriations, 1967, law, 501  
 appropriations, 1968—  
 hearings, 10632, 16390  
 reports, 10616, 16372  
 Clearinghouse publications, 8982, 14849-850  
 extend—  
 hearings, 17658  
 report, 13648  
 hearings, 10408-409  
 statement by Owen B. Kierman, 14853  
 press releases, 3710  
 racial isolation in public schools, report, 5918  
 Civil service:  
 adverse action, law and regulations, FPM manual, supplement, 3300  
 career opportunities:  
 chemists, 11093  
 Defense Contract Audit Agency, auditors, 9365  
 Defense Dept., professional auditing, 4683  
 Federal Power Commission, 4779  
 Food and Drug Administration inspectors, 11094  
 Immigration and Naturalization Service immigration patrol inspector, 10435  
 Internal Revenue Service, 2399  
 legal careers, 13447  
 medical auxiliaries, etc., 17455  
 microbiologists, 11096  
 National Aeronautics and Space Administration, 1909, 7536, 11574  
 headquarters management intern program, 6729  
 personnel, budget, administrative careers in Federal agencies, 10431  
 professional nurses in Federal Service, 1917, 17456  
 scientific, in Agricultural Research Service, 17323  
 scientific, plant pest control, 13229  
 Sport Fisheries and Wildlife Bureau—  
 fish conservation, 6351  
 U.S. game management agent, pilot, 6345  
 wildlife conservation, 6352  
 Veterans Administration, psychology, 12113  
 civil service journal, 3095  
 employees, use rather than contractor furnished employees for NASA support services, hearing, 16330  
 equal employment opportunity, 1927  
 examination announcements—  
 accountant and auditor, 199, 201, 4390, 7535, 16074  
 accountants, professional, 4393  
 administrative staff and technical services, 16068  
 agricultural commodity grader, amdt., 202, 8983  
 agricultural commodity grader (meat), 16063, 16076  
 agricultural extension specialist, discontinuance notice, 10422  
 agricultural marketing specialist, 7534  
 agricultural research scientists, 12103, 12106  
 agricultural statistician, discontinuance notice, 17459  
 air traffic control specialists, center, tower, station, 16064  
 amendment concerning location of positions, 4400  
 amendment concerning superior academic achievement standards, 7531  
 amendments, 1916, 4389, 7533, 7538, 8987, 17453  
 apprentice (mechanical trades), amdt., 203



Civil service—Continued

examination announcements—continued  
audiologist, discontinuance notice, 14861  
audiology, speech pathology, professional careers, 13448  
auditor, 201, 1908, 5919, 12101, 13438  
auditor, accountant, internal revenue agent, 16067, 16069  
biological research assistants, discontinuance notice, 16077  
biological sciences, 14856  
biologists, discontinuance notice, 16077  
blue collar helper, various occupations, 12102  
bookbinder, amendment, 204  
cartographer, amendment, 13439  
change of jurisdiction to Interagency Board of U.S. Civil Service Examiners for Washington, D.C., 1913-14, 5924  
chemist, mathematician, metallurgist, physicist, amdt., 4388  
clerical and office machine operator positions, 16080  
communications relay equipment operator, amdt., 203  
computer specialists, computer programmer, computer systems analyst, 13441  
computer technician, computer operator, 14857  
correctional officer, Federal Prison Service, 7541  
crop insurance fieldman and supervisor, amdt., 5921  
current, 208-210, 1918, 4395-96, 5929, 7542, 8991-92, 10420, 12103, 13442-443, 14858-859, 16072-73, 17457-458  
cylinder pressman, 5926  
dental auxiliaries, 12104  
digital computer systems operator, discontinuance notice, 14862  
education specialist and supervisory education specialist, 205, 5931  
educational program advisors, 17462  
electronics mechanic, amendment, 203  
electronics technician, 12109  
elementary teachers, Indian affairs Bureau, 1921-22  
engineer, non-research positions only, amdt., 205  
engineering aid and science assistant, 7545  
engineering and physical sciences, 1924, 5933, 17459  
engineers, amendment, 10410  
entomologist, amendment, 8985  
equipment operators and repairmen at journeyman and junior levels, 12102  
equipment specialist, aircraft specialties and electronics, amdt., 1911, 14854  
farm management supervisor, amdt., 12107  
Federal administrative and management positions, discontinuance notice, 10424  
Federal service entrance examination, 8993, 16070  
fireman, District of Columbia, amendment, 1912  
fishery biologist, discontinuance notice, 16077  
foreign language specialists, discontinuance notice, 5930  
forester, 8984, 16078  
freight rate specialist, 206  
geologists, amendment, 5920  
guard, 4401  
health scientist administrators, amdt., 5922  
hearing examiner, 12114, 16066  
historian, amendment, 10414  
home economist, discontinuance notice, 5932  
home supervisor, amendment, 12107  
hydrologists, amendment, 5920

Civil service—Continued

examination announcements—continued  
illustrator, 14863-864  
Indian and Alaska native health program, nurses, 10436  
Indian health program, nurses, discontinuance notice, 10423  
intergroup relations specialists, 1923  
junior Federal assistant, 4402, 13446  
librarian, Veterans Administration Installations, 10411  
librarians, 4404, 10417  
maintenance and service workers in Washington, D.C., metropolitan area, 4403, 5925, 7532, 14028  
maintenance technician, 7537  
maritime safety specialist, 14867  
mason (stone and brick), 10415  
mediator, National Mediation Board, 14868  
medical technologist, 10412  
messengers, 8995  
meteorologist, 4387  
microbiologists, discontinuance notice, 16077  
mineral industries, safety officer, 4392  
model maker, nonmetal, amdt., 203  
nurses, professional, 1920, 5927, 8989, 10416  
nursing assistant, 10429  
office aid, 4397  
office assistant, 16080  
operations research analyst, 10430  
orthotist, 17455  
patent adviser, amendment, 205  
patent examiner, 16075, 17461  
pathologist, forest and forest products, amdt., 8985  
pharmacologists, discontinuance notice, 16077  
physiologists, discontinuance notice, 16077  
plant quarantine inspector, 211, 12100  
plasterer, 10415  
policeman, 4407, 13440  
printer, monotype keyboard operator, slug machine operator, 4410  
printer, monotype keyboard operator, slug machine operator, hand compositor, amdt., 204, 13437  
printer proofreader, amdt., 204, 13437  
printing crafts, compositor, bookbinder, pressman, machinist lithographer, photoengraver, apprentice group, 4391  
program specialist and adviser in education, amdt., 10413  
prosthetist, 17455  
psychologists, 16071, 12113  
public health nutritionist, amdt., 16065  
radio announcer, 7537  
radio broadcast technician, 7537  
recreation resource specialists, 212, 8986, 12110  
research forester, and forest products technologist, 4394  
research psychologist, amendment, 200  
resident youth worker, 12111  
restoration technician, 17455  
rigger, amendment, 203  
safety inspector, 1915  
salary supplements, 4408, 5937, 10433  
securities investigator, discontinuance notice, 7543  
senior level positions in administration, technical services, etc., 8988  
social workers, 1907, 5928  
speech pathologist, discontinuance notice, 14861  
stenographers and typist, 7549, 14855  
surveying aid, discontinuance notice, 7544  
technical writer and editor positions, 1931  
technicians in engineering and physical science, 13445

Civil service—Continued

examination announcements—continued  
 telephone operator, 4409, 5923, 13431  
 tradesmen and craftsmen at journeyman  
 and junior levels, 12102  
 trainee, vacation work-study positions,  
 in engineering and physical sciences,  
 etc., 214, 17460  
 transmitter and receiver operator, 7537  
 transportation tariff examiner, amdt.,  
 1915  
 urban planner, 12115, 13444  
 veterinarian, amendment, 12100  
 veterinarian trainee, summer employ-  
 ment, 17463  
 warehouse examiner, amendment, 202  
 wildlife biologist, discontinuance notice,  
 16077  
 writing and editing positions, 4411,  
 10418  
 examinations—  
 places where held, 4406, 16082  
 sample questions, 213, 1929, 5938, 8996,  
 10434, 12112, 13449  
 Federal career service at your service,  
 7546  
 Federal personnel, fund raising for volun-  
 tary health and welfare agencies, man-  
 ual, 3539, 4399  
 Federal personnel manual, 3297  
 supplements, 3298-3306  
 Federal workforce outlook, 12108  
 handbook of occupational groups, etc.,  
 3389  
 handbook X-118, 3790  
 handbook X-118B, 3791  
 handbook X-118C, 3792  
 investigation, authorization and continua-  
 tion, report, 4592  
 investigation, authorization, report, 6072  
 job opportunities, local and regional ex-  
 aminations, 1926, 5935, 8994, 10427,  
 14866  
 laws, Executive orders, rules and regula-  
 tions, FPM supplement, 3304  
 medical certificates, reviewing and acting  
 on, FPM supplement, 3299  
 national emergency standby regulations  
 and instructions, personnel and man-  
 power, FPM supplement, 3306  
 occupational groups and series of classes,  
 handbook, 16079  
 pay structure of Federal civil service,  
 16081  
 placement of handicapped, summary of in-  
 spection findings, 10432  
 position-classification standards, 3692  
 post-entry training and education for  
 professional, administrative employees,  
 task force report, 7046  
 potential savings available through use of  
 civil service employees rather than con-  
 tractor-furnished employees for certain  
 support services, GAO report, 11150  
 processing personnel actions, 3298  
 qualification standards—  
 classification act positions, 3790  
 postal field service, 3791  
 wage board positions, 3792  
 self and service enrichment through Fed-  
 eral training for professional, adminis-  
 trative employees, annex to task force  
 report, 10030  
 supergrade positions—  
 appointment solely on merit, etc., hear-  
 ings, 16339  
 increase quota, hearings, 16339  
 working for U.S.A., applying for job, etc.,  
 14869  
 see also Civil service pensions—Govern-  
 ment officials and employees.  
 Civil Service Commission:  
 ADP Management Training Center, scope,  
 faculty, methods, etc., 16002

Civil Service Commission—Continued

appropriations, 1968—  
 amendment, 12323  
 hearings, 9145, 15147  
 report, 10600, 15131  
 better office skills and service, student  
 manual, 17454  
 civil service retirement system adminis-  
 tered by CSC, financing, GAO report,  
 9547  
 commissioner, nomination of Robert E.  
 Hampton, hearing, 7824  
 Financial Management and PPBS Train-  
 ing Center, background, curriculum,  
 etc., 7547  
 General Management Training Center, pur-  
 pose, etc., 7548  
 interagency training programs, 10426  
 internal auditing activities, GAO review,  
 8144  
 investigator, qualifications, etc., 207  
 pamphlets, 1927-28, 5936, 10431, 13447,  
 14869-870, 16081  
 procedures relating to continuing eligibil-  
 ity of Federal employees for disability  
 retirement annuities under retirement  
 system, GAO report, 1102  
 report, 1966—  
 departmental edition, 7539  
 document edition, 7595  
 Civil Service Examiners, Interagency Boards  
 see Interagency Boards of U.S. Civil  
 Service Examiners.  
 Civil service pensions:  
 annual report, 7540  
 classified and postal employees, 1945-66  
 increases in retirement annuity, 4556  
 firemen, include within retirement pro-  
 visions of U.S. Code relating to hazard-  
 ous occupations, hearing, 16429  
 laws, compilation, 1981  
 rates etc., planning for the later years,  
 18207  
 retirement and disability fund, 1965, re-  
 port, 4489  
 retirement benefits, FPM manual supple-  
 ment, 3301  
 retirement credits, transfer to social se-  
 curity system, to close gaps in protec-  
 tions, amend U.S. Code, hearings, 10672  
 retirement financing, recommendations,  
 15046  
 retirement law, amend to liberalize bene-  
 fits for referees in bankruptcy, hearing,  
 16420  
 retirement, provisions of title 5, United  
 States Code, 13880  
 retirement system—  
 continuing eligibility of Federal em-  
 ployees for disability retirement an-  
 nuities, GAO review, 1102  
 Federal employee facts, 4398  
 financing, GAO report, 9547  
 staff retirement systems, appendix to re-  
 port, 10692  
 survivors of reemployed annuitants, com-  
 puting annuities—  
 hearing, 749  
 report, 10745  
 your retirement system, questions and  
 answers concerning Federal civil serv-  
 ice retirement law, 14870  
 Civil service retirement and disability fund,  
 see Civil service pensions.  
 Civil War, 1861-65:  
 naval chronology, pt. 6, special studies  
 and cumulative index, 1541  
 service records, pamphlet to accompany  
 microcopy, Utah Territory, Union Vol-  
 unteers, 18073  
 Union provost marshals' papers, pamphlet  
 to accompany microcopy relating to in-  
 dividuals civilians, 18061  
 United States Marines at Harper's Ferry,  
 historical reference pamphlet, 12784

Civil War Centennial Commission, audit, Sept. 7, 1957-May 1, 1966, GAO report, 14148

Civil works, *see* Public works.

Civilian Advisory Panel on Military Manpower Procurement, report, 6028

Civilian defense:

- activities, appropriations, 1968—
  - hearings, 9145
  - reports, 10600, 15131
- adult education course, personal and family survival—
  - announcement, 16507
  - student manual, 1905
  - teachers manual, changes, 7916, 12470
- Civil Defense Office information bulletin, 3420
- civil emergency planning, agreement with Canada, 17249
- community and family service, how organizations can advance program, 16050
- community development and civil defense, 16059
- community involvement, suggestions by American National Red Cross, 16051
- congressional testimony, 90th Congress, 1st session, excerpts, 12098
- damage effects estimation techniques, 13426
- emergency health care, reference guide for students of medical self-help training course, 4378
- Federal buildings, change, 14613
- Federal civil defense guide, 190-195, 4379-81, 5912-13, 8977-79, 10405-406, 13421-423, 14842
- Federal stockpile inventory, report, 2986
- Federal surplus personal property, how to acquire, 12621
- FG series, 4382, 5914-15, 13424, 17450
- if disaster strikes and there is no doctor, medical self-help training, course, announcement, 11738
- labor participation, 197
- labor union members, how are you affected? 4383
- labor's role in State, county, and local civil defense, labor leaders briefing guide, 16055
- labor's role, training course, instructor's guide, 198
- maintenance of shelters, USSR study, 12756
- management textbook, 16056
- meetings that move, handbook, 14843, 16052, 17451
- memorandum to industry, movie, announcement, 10407
- national and State, policy resolutions of AFL-CIO, 1903, 17452
- national fallout shelter survey program, joint support group, phase 1 survey instructions, 15226
- packaged disaster hospital—
  - laboratory section, 2823
  - materials, catalog and guide for distribution, 13081
- planning, nuclear radiation shielding, analysis and design principles, 8394
- program, status, 8980
- programmed orientation to civil defense—
  - governmental responsibilities for civil defense, 13432
  - nuclear weapons effects, 13429
  - panel book to accompany text, 14846
  - protection against what? 13428
  - shelters, 13430
  - warning, emergency operations, and support programs, 13431
- publications, price lists, 1564, 17136
- radiological defense, planning and operations guide, student manual, 7528
- rural, Federal Extension Service program, 3463
- State and regional defense airlift planning, change, 9447

Civilian defense—Continued

- State directors, lists, 1904, 14844
- State salary ranges, 4898, 11194
- student manual SM series, 1905, 7258, 14846, 16056-57
- USSR study, 1248
- waterworks operations, civil defense aspects, 4382

Civilian employees, *see* Army—Government officials and employees.

Civilian nuclear power, 1962 report to the President, 1967 supplement, 7436

Civilians:

- aides to Secretary of Army, 13th national conference, summary, 15944
- civilian personnel pamphlets, 5723-24
- DSA career program for automatic data processing, 13910
- Navy, manpower management (periodical), 8602
- travel and transportation, temporary duty, general information, etc., handbook, 6143
- Union provost marshals' papers, pamphlet to accompany microcopy, relating to individuals, 18061

Cladding, ductile, effect on bend transition temperature of wrought tungsten, 17008

Claims:

- ammunition shipments, indemnification for losses arising from, agreement with Great Britain, 7184
- arising from correction of military records, provide statute of limitations on payments, report, 2016
- bankruptcy, creditors, filing, amend act—
  - hearing, 16420
  - report, 9094
- Census Bureau employees, arising out of taking 1960 decennial census, Secretary of Commerce to settle—
  - law, 442
  - report, 928
- Coast Guard, settlement incident to non-combat activity while operating as service in Transportation Dept., increase settlement authority, amend U.S. Code, report, 17571
- damages to property, etc., proposed supplemental appropriation to pay, 9077, 10697
- District of Columbia employees personal property claims, settlement, report, 10610
- District of Columbia escheat cases, settlement by commissioners, remove dollar limit—
  - law, 12175
  - reports, 7688, 12380
- Federal agencies, general procedures, GAO guidance manual, 8128-29
- Gut Dam, agreement with Canada, 8725
- International claims settlement act of 1949, amend—
  - hearings, 732, 12300
  - law, 484
  - report, 897
- International claims settlement act of 1949, as amended—
  - relative to claims against Yugoslavia, excerpts, 8050
  - text of title 5, 8051
- livestock, packers and stockyards act provides assistance, 1712, 15869
- medical insurance, under medicare, methods of payment, 7127
- military, settlement, and appeal procedure, amend U.S. Code, report, 12279
- ordnance plant explosion in Bowie County, Tex., settlement—
  - law, 12158
  - reports, 637, 801
- postwar economic assistance claim, settlement, agreement with Federal Republic of Germany, 11849

Claims—Continued  
 United States nationals—  
   against Chinese Communist regime, de-  
   termination—  
     law, 484  
     report, 897  
   against Poland, determination, hearing,  
     732  
   agreement with Yugoslavia, text, regu-  
     lations, etc., 8050  
   veterans, settlement, agreement with  
     Philippines, 17234  
   war claims act, administration, investi-  
     gation, report on findings, 13831  
   see also Unemployment insurance—also  
     names of claimants.

Clamps:  
   cable clamp bolt fixture facilitates assem-  
     bly in close quarters, 15533  
   Marmon, tool facilitates installation, 9860  
   provide efficient connection for high-  
     density currents, 11469  
   system for Pharos 2-MJ capacity bank,  
     11671

Clams, certified shippers, list, 3089

Clarinda, Iowa:  
   airport, permit leasing of portion of prop-  
     erty—  
     law, 376  
     report, 680

Clarinet, sonata for 2 clarinets, student com-  
   posers take over, 7911

Clark, Austin H., monograph of existing cri-  
   noids, suborders Oligophreata and Ma-  
   crophreata, 14528

Clark, F. Bryan, planting black walnut for  
   timber, 32

Clark, George:  
   histochemistry of Well stain on Ilver,  
     10320  
   problems in aerial application, endrin and  
     carbon tetrachloride, etc., 4252

Clark, Joseph S.:  
   East of the Elbe, 6104  
   war or peace in Middle East, 10837

Clark, Leonard V., free jet impingement nor-  
   mal to curved surface in vacuum, 9897

Clark, R. T., experimental casagrain-fed  
   monopulse antenna system, 11396

Clark, Ramsey, nomination, hearing 9324

Clark, S. K., pressure distribution curves  
   applicable to pneumatic tires, 11401

Clark, William B., naval documents of Amer-  
   ican Revolution, 1773

Clark, Willie E., index to conferences relat-  
   ing to nuclear science, 127

Clarke, J. F. Gates, Chilean microlepidoptera,  
   6970

Clarke, James W., geophysical abstracts,  
   3376

Clarke, Joan, labor law and practice in Leba-  
   non, 2495

Clarkson, J., British work on behaviour of  
   warship structures, 5488

Clary, Warren P., differences in herbage-  
   timber relationships between thinned and  
   unthinned ponderosa pine stands, 2316

Classification:  
   classification bulletins, Patent Office, 2785,  
     5368  
   classification definition series, 5369,  
     8604-5, 11684, 13043-46, 17104-108,  
     18117-134  
   Government publications available to de-  
     pository libraries, list of classes, 17131  
   Library of Congress—  
     additions and changes, quarterly list,  
       3464  
     class G, geography, etc., 5086  
     class L, education, 5087  
     class P, subclass PQ, French literature,  
       2527  
     class Q, science, 9749  
     class R, medicine, 5088

Classification—Continued  
   Navy, enlisted personnel manual, 5339,  
     14586  
   Navy officer, manual—  
     changes, 2777, 18108  
     cross reference index, 7014  
   postal field service, reclassify certain pos-  
     tions, hearings, 12308  
   U.S. foreign trade statistics, classifications  
     and cross-classifications, 17440  
   United States Senators, 762  
   see also Civil service—Government officials  
     and employees—also names of sub-  
     stances, objects, etc., classified.—

Classrooms:  
   complex, with programmed instructions,  
     USSR study, 9661  
   National Teacher Corps as missionaries,  
     6188

Claude cycle, see Refrigeration and refriger-  
   ating machinery.

Clay, Eleanor W., bimonthly list of publica-  
   tions and motion pictures, 3058

Clay:  
   construction products, current industrial  
     reports, 3169, 12068, 14827  
   deposits, northeastern Alabama, 2357  
   lime-soda slater process for producing  
     alumina from, evaluation of method,  
     19779  
   minerals yearbook chapter, 2534  
   see also Montmorillonite.

Clayton act, see Mononolles.

Clean air act, see Air pollution.

Clean rooms:  
   air sampler, counts, categorizes, and rec-  
     ords particle size, 14409  
   bacteriology of, 17937

Clean water restoration act, see Water pollu-  
   tion.

Cleaning:  
   and fluid contact with solids, classifica-  
     tion definitions, 18124  
   equipment and supplies Federal item  
     identification guides for supply cat-  
     aloging, supplements, 3290  
   liquid oxygen ducting cleaned by falling  
     film method, 16947  
   see also Dry cleaning.

Cleaning compounds, see Soap.

Clear Creek County, Colo., geology and ore  
   deposits of Lawson-Dumont-Fall River dis-  
   trict 16683

Clear Lake National Wildlife Refuge, birds,  
   list, 15962

Clear Lake Springs, Millard County, Utah,  
   causes of fluctuations in rate of discharge  
   12618

Clearing of land safety industry, instructor  
   outline site clearing, 17887  
   see also Reclamation of land.

Clearinghouse for Federal Scientific and  
   Technical Information:  
   fast announcement (periodical), 3266  
   fast announcement service of U.S. gov-  
     ernment research and development  
     reports, 10437  
   press releases, 3711  
   R&D reports, technical information that  
     may help your company, 5204 14520  
   scientific documentation sponsored by  
     NFS, price list, 6916

Clearinghouse for Research in Child Life,  
   8967

Clearwing moths, clearwing borer in red  
   oaks, 2326

Cleaver, Thayer, effect of layout, equipment,  
   and routine on time and travel required  
   for milking cows, 4151

Clem, Harold J., maintenance management  
   in Defense Dept., 17858

Clement, Wendell E., consumer response to  
   various levels of advertising for fluid  
   milk, 17322

**Clergy:**  
 hospital ministry, medico-moral ethics (papers), 15817  
 social security for clergymen, explanation, 11801  
**Clerical workers, see Clerks.**  
**Clerk typists, see Typists.**  
**Clerks:**  
 better office skills and service, student manual, 17454  
 examination announcements, 7549, 16080  
 office aid, examination announcement, 4397  
**Cleveland, Ohio:**  
 area wage survey, 5066  
 children in need, federally assisted aid program to families, study, 4386  
 selected neighborhoods, population characteristics, 4351  
 urban studies, 4386  
**Clevenson, Sherman A.,** fatigue life under random loading for several power spectral shapes, 17013  
**Click beetles, see Beetles.**  
**Cliff, Rodger, A.,** application of stored-program computer to small scientific spacecraft, 11533  
**Clifford, J. E.,** water-vapor electrolysis cell with phosphoric acid electrolyte, 12858  
**Clifton, N.J.,** area wage survey, 15438  
**Climate:**  
 and surface water features of Sahl Sūsah area, Tunisia, 11189  
 Arizona, 4746  
 changes, and agricultural production, Communist China study, 9673  
 China, characteristics, classification, etc., 12686  
 climatic maps of United States, 13989  
 climatology of United States, climates of States, 4746, 9425-26, 12478, 16530-531  
 climatological aspects of air pollution in West Virginia, 6219  
 climatological data—  
 by States, etc., 3096  
 for Antarctic stations, 6217  
 national summary, 3097  
 climatological probability of aircraft icing, 7318  
 climatology—  
 Northern Hemisphere, introduction, 14793  
 radioactive fallout in northern regions, 14794  
 Iowa, 9425  
 local climatological data, 3522  
 Michigan, 16530  
 monthly data for world, 3570  
 New Jersey, 9426  
 Oregon, 16531  
 subtropical, seasonal changes among endocrine-metabolic indices of men, 7358  
 Vietnam, Republic, annotated bibliography, 16539  
 WB/BC series, 16539  
**Cline, A. J.,** soil survey of Delta-Montrose area, Colo., 15747  
**Clinical Center, National Institutes of Health:**  
 current clinical studies and patient referral procedures, 10044  
 normal volunteer patient program, handbook, 7067  
 patient admission procedures, 13069  
 people with a purpose, normal volunteer patients, 7081  
**Clinical medicine, see Medicine.**  
**Clinical medicine (USSR periodical):**  
 translations, 1194, 1200, 1314, 1347, 4973-74  
**Clinical pharmacology, see Pharmacology.**  
**Clinical psychologists, see Psychologists.**

**Clinics:**  
 psychiatric facilities usage for community mental health programs and related research, 5465  
 psychiatric outpatient services, State and total U.S.—  
 annual statistical reports, 1586, 14633  
 special statistical report, older adult patient, 5453  
 Turkmen SSR, quality and number of medical institutions increase steadily, 14224  
 Veterans Administration career information—  
 manual arts therapists, 14713  
 occupational therapists, 14712  
 social workers, 14711  
**Clinton hematitic sandstone deposits, Butt Mountain area, Va.,** 12819  
**Clocks and watches:**  
 dutiable status of imports from insular possessions, amend tariff schedules—  
 law, 509  
 report, 911  
 synchronizing remotely-located clocks, 8422, 14373  
 see also Atomic clocks.  
**Clones, cacaro, collection of Agriculture Dept.,** description, 10148  
**Close, Kathryn, children, interdisciplinary journal for professions serving children,** 3093, 14840  
**Closed collision paths in plane circular restricted three-body problem,** 9922  
**Closed life-support system, etc.,** 15515  
**Closing nutrition gap,** 15871  
**Clostridium:**  
 agar concentration in counting colonies, 17346  
 clostridium bacteria toxins effect on hemolytic and lecithinase activity, USSR study, 15388  
 clostridium perfringens, toxins, microbiological studies, 11290  
 recovery from human feces, development of method, 4182  
**Closures:**  
 for containers, current industrial reports, 3169, 13388  
 self-sealing closure enables access to several fluid containers, 14417  
**Cloth, see Textiles—also names of textiles.**  
**Clothing:**  
 and individual equipment, Federal item identification guides for supply cataloging, supplements, 3292  
 apparel survey, 1965, current industrial reports, 8938, 10352, 12067  
 field clothing exchange operations, Army technical manual, 8885  
 fix new clothes to make them last longer, 7237  
 4-H projects, abilities of girls 9-13, 48  
 men's apparel, current industrial reports, 3169  
 pneumatic insulation suit for radioactivity protection, USSR study, 14231  
 programs, pattern alteration, guide for leaders, 15856  
 protective—  
 chemical operations, technical manual, 15946  
 motorcycling fun and personal protection, 17174  
 passenger smoke hood, aviation medical report, 14812  
 simplified construction, 14743, 17314  
 urban families, expenditures per member by sex and age, 14303  
 used clothes for your school boy or girl, measure before you buy, 7284  
 water cooled, bio-thermal responses to varied work program in men kept thermally neutral, 8423

# INDEX 1967

- Clothing—Continued  
women's apparel, current industrial reports, 3169  
*see also* names or types of clothing.
- Clotlog, *see* Blood.
- Clats, *see* Blood.
- Cloud, Preston E., Jr.:  
bauxite deposits of Anniston, Fort Payne and Ashville areas, northeast Alabama, 2356  
geology and bauxite deposits of Rock Run and Goshen Valley areas, northeast Alabama, 9561
- Cloud, William K., Parkfield, Calif. earthquake of June 27, 1966, preliminary engineering seismological report, 1934
- Clouds:  
cover and out-going radiation, investigation with satellite Kosmos-122, USSR study, 2443  
droplet camera, 4202  
maps, automatic compilation of Setun' electronic computer using weather satellite data, USSR study, 12660  
measurements using aircraft, time-lapse photography, 10967  
Pre-Gondola, lidar observations, final report, 17397  
noctilucent, USSR study, 1332  
research, use of meteorological satellites, USSR study, 12744  
television photography, meteorological satellite data, catalog—  
ESSA 3, 16536  
TIROS IX, 6227  
TIROS X, 13990  
upper troposphere motions as revealed by satellite-observed cirrus formations, 9430
- Clouds, Magellanic, *see* Magellanic Clouds.
- Cloutier, Hardy, soil survey of Chicot County, Ark., 11813
- Clover, *see* Crimson clover.
- Clover-Rush Run oilfield, William Kaufman lease, reservoir study, 14347
- Cluj, Rumania, radioactivity of vegetation, studies, 1299
- Clutches (machinery):  
and power-stop control, classification definitions, 18132
- Clutter, *see* Radar.
- Clynes, Susan J., relief, 340, 834
- Coagulation, *see* Blood.
- Coal:  
Alaska, resources, 8157  
analyses of tippie and delivered samples, 8375  
analyzing and testing coal and coke, methods, 14323  
anthracite—  
carbon dioxide adsorption, surface area studies, 1412  
gamma radiation effect on reaction with fluorine and chlorine, 2585  
Pennsylvania—  
distribution 1965-66 coal year, 5102  
from Bottom Red Ash bed, northern field, preparation characteristics, 12830  
mineral industry surveys, weekly, 3679  
minerals yearbook chapter, 2535  
pressure drop across fixed beds of briquets, comparison with blast furnace materials, 11375  
bituminous and lignite—  
distribution, quarterly, 3060  
minerals yearbook chapter, 5099  
mining, census of minerals, 1963, industry statistics, 167  
bituminous resources of Texas, 8158
- Coal—Continued  
BM-AGA carbonization yields from 13- and 18-inch-diameter retorts, correlation, 2575  
carbonization—  
conditions and coal properties effect on coke size and strength, 16866  
yields and analyses of tars and light oils, 16850  
carbonizing properties—  
Fayette and Greenbrier Counties, W. Va., 2576  
Logan and Mingo Counties, W. Va., 5130  
chemicals—  
mineral industry survey, 3103, 15462  
minerals yearbook chapter, 5100  
chloroform extractions of coals and chars, 12826  
coal and modified coals, use as adsorbents for removing organic contaminants from waste waters, 2588  
coal-fired turbine, Mines Bureau research project, test of new blade design, 9772  
cost competitiveness for energy sources of future (remarks), 6439  
dewatering anthracite slurry, 15478  
distribution of minor elements in western and southwestern regions of Interior coal province, 8153  
electrochemical reduction, 16862  
fly ash, extraction of germanium and gallium, 9789  
foreign trade reports, 3998, 10399  
industry, nuclear power briefing, 8904  
international trade, monthly inventory, 3433  
liquefaction (remarks), 8997  
minor elements in American coals (series), 8153  
optical properties, 16849  
preparation characteristics—  
Randolph County, W. Va., 2578  
Upshur County, W. Va., 14358  
products from high-temperature irradiation and carbonization of coal, comparison, 2572  
report, weekly, 4053  
resources—  
Cape Lisburne-Colville River region, Alaska, 15306  
southwestern Utah, potential for use in steam-electric power-generation plants, 8341  
spectrometry advances, absorption, 16848  
thickness of bituminous coal and lignite seams mined, 14327  
use with ammonia, for hydrogen cyanide production, 14349  
Utah—  
coking properties, 11377  
low-temperature carbonization product yields, estimation, 14315  
*see also* Ashes.
- Coal dust:  
and methane mixtures, equivalences and lower ignition limits, 9782  
incendivity of hot gases to methane and coal dust, reduction by sodium chloride and sodium nitrate, 11383
- Coal fields, *see* Coal.
- Coal-fired water pump, 1408
- Coal lands, strip-mining in eastern Kentucky, land disturbances, 8077, 17801
- Coal Mine Safety Board of Review, member, nomination of Elzie H. Wooten, hearing, 6123
- Coal mines and mining:  
bituminous coal mines, wage chronology, 16820  
census of mineral industries, 1963, industry statistics, 166  
Federal coal mine safety act, as amended, title 1 and title 2, text, 16852  
injuries and employment, monthly report, 3098



Coal mines and mining—Continued  
 longwall mining—  
     in bituminous coal mines with planers,  
     shearer-loaders, and self-advancing  
     hydraulic roof supports, 6638  
 techniques, demonstration mine, Wind-  
 ber, Pa., feasibility study and supple-  
 ment, 7868  
 nitrogen dioxide in fumes from explosives,  
 rapid colorimetric method for field de-  
 termination, 14338  
 pneumatic transportation of solids, sym-  
 posium, 2542  
 pressure changes in pillars during extrac-  
 tion, 12829  
 stress distributions in burst prone coal  
 pillars, 12824  
 USSR, poor safety measures and work  
 methods, 2478  
*see also* Coal lands—Mine drainage.  
 Coal Research Office:  
     annual report, 10440  
     appropriations, 1968, hearings, 7734  
     press releases, 3712  
 Coal tar, *see* Tar.  
 Coal Week, National, *see* National Coal  
 Week.  
 Coalfields, *see* Coal.  
 Coast and Geodetic Survey:  
     aeronautical charts and related publica-  
     tions, catalog, 5939, 8998, 16084  
     magnetograms MHV series, 7552  
     publications, 4412, 12117, 14873, 17466  
     special publications, 1935  
     technical bulletins, 5346  
     uniformed services, joint travel regula-  
     tions, 3455  
 Coast facilities, Navy design manual,  
 changes, 2765  
 Coast Guard:  
     aids to navigation services, improve, etc.—  
     hearings, 745  
     law, 382  
     reports, 669, 4585  
     appropriations for vessels, authorization—  
     hearings, 7752, 10827  
     law, 13524  
     reports, 10556, 12378  
     auxiliary membership qualification guide,  
     13452  
     career opportunities, engineering team,  
     not for ordinary engineer, 218  
     claims settlement incident to noncombat  
     activity while operating as service in  
     Transportation Dept., increase settle-  
     ment authority, amend U.S. Code, re-  
     port, 17571  
     construction of shore and offshore estab-  
     lishments, appropriate authorization,  
     report, 12378  
     court martial cases, report, 7844  
     electric engineering regulations, 9001  
     engineer's digest (periodical), 17468  
     enlisted ratings qualifications manual,  
     14876  
     equipment lists, 9002  
     group life insurance program, annual re-  
     port, 8778  
     legislation, hearings, 745  
     manual, national search and rescue,  
     amendment, 12124  
     marine investigation regulations, etc.,  
     10443  
     need for improvement in Coast Guard Re-  
     serve training program, GAO report,  
     14153  
     nominations, hearings, 6094  
     oceanographic reports, 10444-445  
     officers and cadets, register, 7560  
     official recreational boating guide, 219,  
     4419  
     ordnance manual, amdt., 4417  
     organizational manual, 4418  
     recreational boating safety, responsibil-  
     ity, hearing, 17603  
     regulations, 222

Coast Guard—Continued  
 retirement age requirements, amend act  
 rel. to former Lighthouse Service em-  
 ployees, report, 12251  
 rules and regulations for numbering un-  
 documented vessels and reporting of  
 boating accidents, 9007  
 terminal facilities guide, Defense Supply  
 Agency handbook, 17690  
 transfer—  
     law, 389  
     report, 906  
 United States Code, title 14, amend—  
     law, 17537  
     reports, 7706, 15089  
*see also* Pay, allowances, etc.  
 Coast Guard Academy, New London:  
     cadet profile, 16088  
     candidates for appointment as cadets,  
     1967-68, bulletin of information, 9008  
     catalogue of courses, 14879  
 Coast Guard Auxiliary, motorboat examina-  
 tion program, courtesy examiners hand-  
 book, 5947  
 Coast Guard Officer Candidate School, op-  
 portunity for college seniors or graduates,  
 217  
 Coast Guard Reserve:  
     Coast Guard reservist (periodical), 3099,  
     12122  
     INACDUTRA afloat training guide, 14878  
     keep your civilian job but enjoy 2d career  
     as commissioned officer, 10442  
     nomination, hearings, 6094  
     register of officers, 7559  
     training program, need for improvement,  
     GAO report, 14153  
 Coast Guard stations:  
     construction of shore and offshore es-  
     tablishments, appropriation authori-  
     zation—  
         hearings, 7752, 10827  
         law, 13524  
         report, 10556  
 Coast Guard vessels, *see* Ships.  
 Coast pilots, United States coast pilot, 4414,  
 5942-45, 7553-54, 7556-57, 17467  
 Coastal Engineering Research Center:  
     bulletin and summary report of research  
     progress, 2207  
     miscellaneous papers, 10952, 13975  
     reprint R. (series), 10953, 16519-321  
     technical memorandums, 7924-25, 10954,  
     13976, 16522-523  
     technical report, 1022  
     wave record program, 10951  
 Coastal Plains, *see* Atlantic States.  
 Coastal Plains Regional Commission, eco-  
 nomic development plans and programs for  
 Coastal Plains region (remarks), 16090  
 Coastal processes and beach erosion, 10953  
 Coastal warning facilities charts:  
     Canadian border to Eureka, Calif. and  
     Alaska, 14717  
     Cape Hatteras, N.C. to Brunswick, Ga.,  
     14718  
     eastern Florida, 8790  
     Eastport, Maine to Montauk Point, N.Y.,  
     14719  
     Eureka to Point Conception, Calif., 11901  
     Hawaiian Islands, 11902  
     Manasquan, N.J. to Cape Hatteras, N.C.  
     and Chesapeake Bay, 14720  
     Montauk Point, N.Y. to Manasquan, N.J.,  
     14721  
     Morgan City, La. to Brownsville, Tex.,  
     11903  
     Point Conception, Calif. to Mexican bor-  
     der, 11904  
     Puerto Rico and Virgin Islands, 11905  
 Coasts, coastal engineering, compilation of  
 longshore current data, 10952  
*see also* Littoral.  
 Coated surfaces, *see* Surfaces.



- Coating machinery:  
 coating implements with material supply, classification definitions, 18134  
 mechanism facilitates coating inner surfaces of metal cylinders, 8478
- Coating materials:  
 abraded cadmium-plated cable connectors repaired by conversion coating, 6746  
 black, simulated space environment effects on thermal radiation characteristics, 16980  
 clear coatings on softwood surfaces, irradiated and weathered, microscopic observations, 14123  
 coating implements with material supply, classification definitions, 18134  
 compositions, classification definitions, 8605  
 fire-retardant undercoat on burning characteristics of combustible topcoat, 13036  
 fused-fluoride lubricant additions, for reduction of low-temperature friction, 5265  
 high temperature coating of metals, USSR study, 9677  
 magnesium-lithium alloys, coating protects against corrosion, 11477  
 metal flame spray coating protects electrical cables in extreme environment, 17931  
 pigmented, highly reflecting coatings, light scattering investigations, summary, 14392  
 protective coating for magnesium alloys, 10013  
 sprayable birefringent coating enables strain measurements on large surfaces, 2680  
*see also* Ceramics—Primers (paint).
- Coats, George L., radionuclide standardization, bibliography, 15682
- Coaxial cables, *see* Electric cables.
- Coaxial plasma gun, performance, viscous drag effect, calculation, 5267
- Cobalt:  
 alloy liners for small arms barrels, soundness requirements, military standard, 9378  
 lone, use in activation of ZnS crystals, bleaching effect under ruby laser pulses, 9926  
 iron alloy, magnetically soft, high-temperature, investigation, 1500  
 iron alloy with superior high temperature magnetic properties, 5209  
 mineral industry survey—  
   monthly, 3100  
   quarterly, 3101  
 minerals, magnetic susceptibility, 17911  
 tungsten-cobalt alloys reaction with oxygen at 1,000° and 1,100° K, 14352  
 tungsten-cobalt system for compositions to 85 atomic percent, 12816
- Cobalt isotopes, Co-60, distribution in freshwater ponds, 15681
- Coburn, Kenneth R., physiological, psychological and bacteriological aspects of 20 days in full pressure suits, etc., 6723
- Cocco, Joseph K., employee earnings and hours in retail trade, 8302
- Cocchine County, Ariz., population, special census, 10371
- Cochran, Andrew A.:  
 recovery of manganese as chloride from ores and slags, 11369
- Cochran, Corbie E., relief, 7630
- Cochran, F. L., plutonium metallography, 10298
- Cochran, J., Quebanna pilot plant first generation process operations, 5777
- Cochran, Thomas H., effects of fluid properties and gravity level on boiling in discrete bubble region, 15562
- Cockroaches, how to control them, 7273
- Cocks, Charles A., Missouri Basin Inter-Agency Committee, minutes of meetings, 5138, 14362, 16869-870
- Coconino National Forest, Wild Bill Range, relationship between timber and cattle on Ponderosa pine range, 16652
- Code of conduct for Armed Forces, *see* Conduct of life.
- Code of Federal regulations, 3102, 6266-96, 7975-89, 9459-86, 11030-47, 12515-528, 14033-35  
 general provisions, 16586  
 index, 12515  
*see also* for titles, chapters, etc., of the Code printed separately, subject in volved.
- Codes:  
 computer-based geographic coding for 1970 census (paper), 4304  
 efficient coding system for deep space probes with specific application to pioneer missions, 14493  
 freight description and suffixes, Army regulation, change, 14790  
 transformation task that provides performance measures of nonverbal mediation (Cotran), 16916  
*see also* Codes of law—Machine records codes—also headings beginning Code—also subjects.
- Codes of law:  
 District of Columbia, 1967 edition, 16333  
 United States—  
   annotated, or Federal Code, provide for distribution to Members of House of Representatives, 16231  
   1964 edition, supplement, 12140, 13473  
   revision and codification study—  
     authorization, report, 4608  
     resumé of activities, report, 10743  
   title 5, codify provisions of Public law 89-487—  
     law, 12165  
     reports, 7707, 10780  
   title 37, amend, report, 14942  
   title 38, compilation, 755  
   titles 5, 14, and 37, amend—  
     law, 17537  
     reports, 7706, 15089  
*see also* subjects.
- Codex Alimentarius Commission, international standards for food products, U.S. delegates, etc., 2136, 9353
- Codington County, S. Dak., soil survey report, 7134
- Coe, Fredric L.:  
 effect of hydrazine upon renal blood flow, 11967  
 effects of monomethylhydrazine upon renal function, 15901
- Coe, Michael D., early cultures and human ecology in south coastal Guatemala, 9954
- Coefficients:  
 Doppler, Monte Carlo program for calculation, 18030  
 drag, and local flow properties of family of blunt bodies, 18056  
 drag, of microscopic spheres in free-molecule flow, 11407  
 Fourier analysis, diurnal variation of f<sub>o</sub>F<sub>2</sub>, influence of earth's magnetic field, 8512  
 friction, for laminar and turbulent flow, correlation with ratios of surface bulk temperature, 17014  
 gamma ray angular distribution, compilation, 12013  
 heat transfer, and static pressures for condensation of high-velocity steam within tube, 9911  
 Mathieu functions, tables, 14513  
 1970 input-output, 17891  
 second virial coefficients for hydrogen, quantum mechanical calculations, 8527  
 tables of folded sin x/x interpolation coefficients, 4418  
 viscosity and thermal conductivity, of dilute nitrogen and oxygen, 5293

Coefficients—Continued

Wigner 3j, 6j, and 9j for angular momenta  $\leq 80$ , Fortran programs for calculation, 1526

Coffee, Daniel R., soil survey of Menard County, Tex., 8701

Coffee:  
foreign agriculture circulars, 3345  
green coffee inventories, imports, and roastings, 3354  
international agreement, annual report, 6046

Coffee Creek, flood of Dec. 1964, erosion and deposition, 17823

Coffin, Donald L., geology and ground-water resources of Big Sandy Creek Valley, Lincoln, Cheyenne, and Kiowa Counties, Colo., 11191

Coffman, Jerry L., Parkfield, Calif., earthquake of June 27, 1966, 1934

Coffman, Joseph S., evaluation of western phosphate industry, and its resources, Wyoming and Utah, 11370

Cohee, A. Clifford, jr., estimation in mixed frequency distributions, 12947

Cohen, Allan J., onset of anomalous diffusion in electron-bombardment ion thruster, 2710

Cohen, Edwin, center for ITV, 997

Cohen, Gerald A., effect of edge constraint on bucking of sandwich and ring-stiffened 120° conical shells subjected to external pressure, 11417

Cohen, Milton M., proceedings against, report, 639

Cohen, Wilbur J., womanpower policies, 17886

Cohn, Edward A., mergers and acquisitions by retail grocery store companies, 2172

Coin Week, National, see National Coin Week.

Coins:  
coinage act of 1965, amend to permit use of mint marks—  
bearing, 10817  
law, 12171  
reports, 10602, 10765, 12248  
outstanding and circulation, monthly statement 3897

Coke:  
mineral industry survey, 3103, 15462  
minerals yearbook chapter, 5100  
size and strength, effect of carbonization conditions and coal properties, 16866  
Utah coals and blends, coking properties, 11377  
see also Coal.

Cold-air investigation of turbine for high-temperature engine application, 5236

Cold Regions Research and Engineering Laboratory:

research reports, 97, 1754, 4196-97, 5725, 7378-80, 8878, 10255-258, 11982, 13290-292, 14792, 15930, 17374-376  
science and engineering, environment, 1756, 14793-794  
special reports, 98, 1755, 4198-99, 15931  
technical reports, 99, 4200-2, 7381, 8879, 11983, 14791, 15932-933, 17377-379

Cold solid propellant motor has stop-restart capability, 6830

Cold storage:  
frozen food locker and freezer provisioning industry, 5648

regional holdings, summary, 8761  
report (periodical), 3104

Cold trap increases sensitivity of gas chromatograph, 5206

Cold war, see International relations.

Coldplate of pin fin design makes efficient heat exchanger, 9839

Cole, E. R., beds, classification definitions, 18117

Cole, Everett L., soil survey of Ellis County, Okla., 8703

Cole, Henry A., Jr., baffle thickness effects in fuel sloshing experiments, 2700

Cole, Samuel J., relief, 832

Coleman, George H., radiochemistry of plutonium, 126

Coleman, Robert G., low-temperature reaction zones and alpine ultramafic rocks of California, Oregon, and Washington, 17817

Coleman, Warren F., Jr., relief, 10718, 13567, 17492

Coleoptera, see Beetles—Weevils.

Coigiazier, Robert W., Jr., advance to grade of lieutenant general, authorizing, 2082

Colliform organisms, fecal coliforms in environment, sanitary significance, 6343

Collin, Lawrence, electron densities and scale heights in topside ionosphere recorded at Hawaii, 6736

Collagen, polypeptides and polymers related to collagen, USSR studies, 14270

Collards, caterpillar control in South, 15847

Collecting of accounts:  
debtors' accounts, effort to collect or otherwise settle, Farmers Home Administration, GAO review, 4879

Justice Dept. policies and procedures for judgments, fines, etc., GAO review, 11154

Collection and preservation of insects, 10182

Collective bargaining:  
employee representation, milestone in industrial democracy (remarks), 6939, 8532

future (remarks), 2750  
health and insurance plans, digest, 5058

major agreement expirations, 1967, lists, 16824

millions of ballots for industrial democracy, 6938

poultry feed prices, California groups, 7944

purchaser and labor contract, escalating theory (address), 15596

Collective defense treaties, 7743

Collectives, farmers, increased material interest and improved wages, USSR study, 2475

Collector/collector guard ring balancing circuit eliminates edge effects, 2673

Collectors and collecting, duck stamp information, 11075

College students, see Students.

Colleges and universities:  
air pollution courses, 2806

architecture design awards—  
excellence in design, new potential on American campus, 7894

new shapes for ivory towers, 7904

campus and community (address), 15210

city and the city university (address), 11196

civilian career opportunities for college graduates with Army Department, 8877

computers in higher education, report of advisory committee, 8615

Counselor development in American society, Government-university relations in professional preparation and employment, conference recommendations, 2482

curricula in marine sciences, 17752

degree profile of science and technology and Federal contributions, 14560

developing institutions, assistance, extend, law, 464

directory, higher education, 16498

economic development and college enrollment (address), 16477

education legislation, 1967, hearings, 16426

engineering degrees (1964-65) and enrollments (fall 1965), 13953

enrollment, master's and higher degrees, fall 1964, final report, 2182

enrollment, 1966 fall, 12467

enrollment, projections to 1985, United States, 10363

Colleges and universities—Continued  
 executive development programs in public service, university-sponsored, 2193  
 facilities act of 1963, extend, etc., law, 464  
 facilities act of 1965, amend, hearings, 15026  
 Federal Government and higher education, contract, grant and loan programs, 7755  
 Federal support for academic science and other educational activities, 13011, 17057  
 financing college education, programs, etc. (remarks), 5571  
 Government, universities, and international affairs, crisis in identity, report, 10516  
 graduate academic facilities program, Public law 88-204, preparation and submission of proposals, manual, 17718  
 graduate educational grants—  
     for fishery research, 17774  
     in aquatic sciences, 1077  
 grants for international studies and research, etc., law, 412  
 higher education act of 1965—  
     administration of programs, 1966, notes and working papers, 12422  
     amend, hearings, 15026  
     amend and extend title 5—  
         law, 12176  
         reports, 12275, 13643, 13805  
     educational media programs, 2178  
     grants for library materials, policies and procedures manual, 9405  
     institutional assistance grant program, 16502  
     student loan program, 6% payment tables and amortization schedules, 7910  
     title 1, community service and continuing education, newsletter, 3126  
     title 3, strengthening developing institutions, 2185  
 higher education in scientific age (remarks), 10306  
 higher education reports, for participants in Bureau of Higher Education programs, 13954  
 housing loans, and savings through more frequent payments, GAO report, 17814  
 how Education Office assists college students and colleges, 4712  
 industry and universities strengthen collaboration, USSR study, 6559  
 library resources program, grants for library materials, policies and procedures manual, 9405  
 LSD and marijuana use on campuses, 2128  
 manpower research institutional grant program, progress report, 16795  
 money for college, how to get, 16501  
 NASA Western University Conference, summary report, 2616  
 national defense education act—  
     institutes for advanced study, preparing proposals, manual, 9401  
     student loan program, college work-study program and list of participating institutions, 1001  
 Negro, directory, 9679  
 new dimensions in relationship of university and the physically handicapped (remarks), 13068  
 new luster for college teaching (address), 9404  
 new Soviet Academic settlement in Irkutsk, eastern Siberia, 9637  
 nuclear physics research activities, Basel and Fribourg, Switzerland, 5011  
 pension plans, tax treatment, report, 15093  
 predominantly Negro, graduates—  
     class of 1964, special report, 14625  
     1965-66 directory, 2483  
 prospective manpower situation for science and engineering staff, 14563

Colleges and universities—Continued  
 psychiatric-mental health nursing institutions offering trainee stipends, 11760  
 public college of arts and sciences, etc., establish in D.C.—  
     law, 495  
     report, 693  
 research grants, etc., from HEW, indirect cost rates, guide, 8189  
 resources and activities, systems for measuring and reporting, 17058  
 Rumania, role of higher education for scientific research, 14223  
 scientific activities, resources, 1964 expenditures and Jan. 1965 employment, preliminary report of survey, 2762  
 sea grant colleges and program act—  
     law, 402  
     reports, 632, 679  
 scientific organizations of labor in higher education, USSR, 16776  
 selective service, college qualification test, bulletin of information, 5486  
 seniors and graduates, opportunity in Coast Guard Officer Candidate School, 217  
 staffing American colleges and universities, 7913  
 State land-grant, Extension Service review (periodical), 3255  
 teaching faculty, spring 1963, general characteristics, etc., survey, 9413  
 university perspectives on manpower, seminar, proceedings, 15435  
 urban research study centers, directory, 14919  
 USSR—  
     educational institutions, productivity discussed, 1292  
     evening higher education institutions, prospects, 1164  
     what OE's decentralization means to colleges, decisions from the field, 16497  
     women, 7 years after graduation, survey, 7235  
     work-study program, institutional matching, hours of work, amend law—  
         law, 17536  
         reports, 14952, 14959, 15125  
     see also Junior colleges—also names of colleges and universities.  
 Collette, Bruce B., catalog of type specimens of darters (Pisces, Percidae, Etheostomatal), 6951  
 Collette, J. G. Rolland, space vehicle flight control systems, 12876  
 Collins, A. Gene, bromide and iodide in oil-field brines in some Tertiary and Cretaceous formations, 11385  
 Collins, Arthur B., III, density and height growth in natural slash pine, 15289  
 Collins, C. H., development of radioactive pebble bed chemical reactor system, 12011  
 Collins, Frederick G., allergy and sinus disease in aviators, 14782  
 Collins, Robert L., Jr., three-dimensional analysis of tangential yo-yo despin device on rotating body, 6888  
 Collins, Ronald P.:  
     mineral industry of—  
         Idaho, 1400  
         Montana, 6660  
         Oregon, 2561  
         Washington, 2565  
 Collins, William E.:  
     adaptation to vestibular disorientation—  
         eye-movements and subjective turning responses, etc., 15980  
     influence on adaptation of interrupting myastagmic eye movements with opposing stimuli, 7447  
     visual fixation on nystagmus and sensations of turning, etc., 15981  
 Collins, Winifred Q., meeting challenge of later years, 8802

Collisions, *see* Motor vehicle accidents.

Collisions (electronic) :

low energy, cross section data, bibliography, 8521

Monte Carlo code for solution of planar electron-diode problems including electron-neutral elastic collisions, 15558  
resonant frequencies of dielectric sphere immersed in collisional plasma, 12929

Colloids, asbestos fibrils as reinforcements for polymeric structures, 16914

Colman, J. M., timing and firing, 1810

Colombia :

agricultural commodities, agreement, 7173  
education, exchange commission and financing of programs, agreement, 14683  
foreign trade regulations, 16100  
mineral industry, minerals yearbook chapter, 11360  
projects, planning and supervision by AID, GAO review, 16677  
sea level canal site, joint technical-economic feasibility investigations agreement, 11835

Colonial National Historical Park :

properties within, acquire—

law, 16130

reports, 12247, 15111

Colonic polyps, *see* Polyps.

Color :

color-name as function of stimulus intensity and duration, 14320

induction using asynchronous flashes, 12794

modulation of stationary light beam, 2628

signal lights, selection, definition, measurement, production, and use, 8522

slide rule-type color chart predicts reproduced photo tones, 11436

treatise on color, 11595

use for safety in industry, 8297

Color blindness, defective vision, diagnostic tests, bibliography, 17411

Color codes :

ammunition, military standard, 16467  
color-coded sleeve shutters, use to accelerate oscillograph channel selection, 17991

Color it green with trees, 5676

Color perception, Farnsworth Lantern, use in Navy tests 1955-63, performance record, 16845

Colorado :

area measurement report, 5809

ash flows and related volcanic rocks associated with Creede caldera, 8166

census of agriculture, 1964, State and county statistics, 12092

census of mineral industries, 1963, area statistics, 5824

central—

camper and campground characteristics, cost implications, 14113

high mountain watersheds, sediment yields, 2332

climatological data, 3096

county business patterns, 170, 13366

Cripple Creek district, distribution of gold, tellurium, silver and mercury, 9571

early Indian tribes of Lower Plateau, 6437

electric rate book, 1052

Green River formation, geology and fuel resources, 12610

High Plains, ground water development, 4893

hydrologic performance of floodwater-retarding structures during storms of June 16-17, 1963, report, 14651

indicators and associated decay of Englemann spruce, 6371

lodgepole pine, yield tables for managed stands, 11140

mineral industry, minerals yearbook chapter, 8345

Colorado—Continued

plateau region, Morrison formation, petrology, 12613

ponderosa pine-bunchgrass range, effects of cattle grazing, 14764

ponderosa pine zone, cattle diets on native and seeded ranges, 6369

postal map, 15652

precipitation data, hourly, 3401

radioactivity, airborne, 1952-55, maps, 1802

retrocede jurisdiction over Fort Lyon Veterans Hospital to—

law, 368

report, 898

sedimentary rocks, chemical composition, 14172

shale oil specific gravity from Green River formation, stratigraphic and geographic variation, 2587

soil survey laboratory data and descriptions, 14659

spruce-fir clearcuttings, stocking of reproduction, 2314

ternary diagrams of quartz-feldspar content of pegmatites, 1111

water supply outlook—

and snow surveys, 4045

early season snow report, 5519

special snow report, 15750

Colorado National Monument, general information, 6978

Colorado River and Valley :

authorize Central Arizona project, report, 13826

basin, surface water quality, 11192

boundary waters, loan, agreement with Mexico, 2914

storage project—

Curecanti storage unit, general information, 11770

general information, 13102

10th annual report, 6055

print as Senate document, report, 6084

water supply outlook and snow surveys—

drainage basin, 4045

lower basin, 4044

watershed conditions affecting water supply, 3922

Colorado River Basin project, construct, etc., hearings, 9162, 10851

Colorado River storage project :

Navajo Dam and Reservoir, technical record of design and construction, 7103, 8667

Colorectal polypoid lesions, 14772

Colored minorities and present British policies, 9747

Colorimetry :

automated urinalysis technique determines concentration of creatine, etc., 14437

transmission characteristics of autoanalyzer filters, determination, 7352

Colors, *see* Color.

Colton, Calif., ground water, patterns of subsurface flow, 1118

Columbia, S.C., Veterans Administration hospital, operation, hearing, 13718

Columbia Basin project :

Banks Lake, recreational costs to be non-reimbursable—

hearing, 7811

report, 9264

general information, 18195

Columbia County, Pa., soil survey report, 11804

Columbia River and Valley :

basin, water pollution and other related fields, inventory of research, 15254

fish passage report, Bonneville, The Dalles, McNary and Ice Harbor Dams, 13974

flood season flow near The Dalles, 3907

- Columbia River and Valley—Continued  
lower basin, surface water quality, 11192  
monthly mean discharge at gaging stations  
and change of storage in lakes, etc.,  
3907  
power system, annual reports, 10324-325  
storage in major power reservoirs, monthly  
report, 3907  
water supply outlook and snow surveys,  
4052
- Columbium, *see* Niobium.
- Columbus, Ohio, area wage survey, 6607
- Colusa National Wildlife Refuge, mammals,  
list, 8030
- Colville Reservation:  
Confederated Tribes, Federal supervision,  
termination—  
hearing, 12410  
report, 15123
- Colville River and Valley, coal resources of  
Cape Lisburne-Colville River region, Alas-  
ka, 15306
- Comanche County, Okla., soil survey re-  
port, 15746
- Comandra, grazing and comandra blister rust,  
14127
- Comatulida, suborders Oligopneusta and Mac-  
ropneusta, monograph, 14528
- Combat:  
readiness—  
4th Infantry Division, Fort Lewis,  
Wash., 5th Infantry Division (mech-  
anized), Fort Carson, Colo., 1st and  
2d Armored Divisions, Fort Hood,  
Tex., subcommittee report, 2105  
101st Airborne Division, Fort Campbell,  
Ky., etc., subcommittee report, 4629  
status and readiness of United States  
Atlantic Fleet, report, 10812  
team training, 18109
- Combat (fishing vessel):  
exploratory collection made in southwest-  
ern North Atlantic, 1956-60, correction,  
8035
- Combat areas, theater of operations air bases,  
planning and design, Air Force manual,  
1727
- Combat command, barbed wire command,  
14796
- Combat vehicles, *see* Motor vehicles.
- Combination spacer and gasket provides  
effective static seal, 2630
- Combustion:  
charring rate of wood, review of informa-  
tion, 8059  
Combustibility of materials in oxygen-  
helium and oxygen-nitrogen atmos-  
pheres, 5706  
incineration in cylindrical combustion  
chamber, experimental studies, 9763  
instability, dynamic response of gaseous-  
hydrogen flow system and application to  
high-frequency combustion instability,  
12953  
nonconstant area, and mixing in ramjet  
and rocket ramjet hybrid engines,  
analysis, 1478  
oxidizer-rich oxygen-hydrogen characteris-  
tics, preliminary investigation, 2708  
rocket, gaseous-hydrogen-liquid oxygen at  
supercritical chamber pressures, 17001  
transverse-mode solid-propellant combus-  
tion instability in vortex burner, 1511  
underground, oil-recovery experiments in  
Venango second sand, Reno pool,  
Venango County, Pa., 11372
- Combustion chamber struts can be effectively  
transpiration cooled, 6805
- Combustion products, emitted by nitrogen  
tetroxide disposal unit, study, 11515
- Combustors:  
liquid-oxygen and gaseous-hydrogen,  
chugging instability, 11547
- Combustors—Continued  
transverse-mode solid-propellant combus-  
tion instability in vortex burner, experi-  
mental investigation, 1511
- Comintern, *see* Communist International.
- Commager, Henry S., testimony, 6100
- Command (military):  
information processing systems, human  
factors research, 119  
*see also* Combat command.
- Command and staff action, 2533
- Command processors, 14479
- Commanders digest (periodical), 3105
- Commemorative medals, *see* Medals.
- Commemorative stamps, *see* Postage stamps.
- Commerce:  
agricultural trade development and assist-  
ance act of 1954, Library of Congress  
project newsletter, 3507  
Alaska trade study, 15243  
automotive products, trade agreement with  
Canada, 2924  
commerce and foreign trade, code of Fed-  
eral regulations, 12523  
Commerce business daily, 3107  
commerce passing through canals at Sault  
Ste. Marie, Michigan, and Ontario, salt  
water ship movements, statistics, 9423  
commercial holidays abroad, list, 9601  
East-West relations, recent developments,  
hearing, 4533  
East-West trade—  
Battle act, report, 7147  
issues (address), 10099  
U.S. policy (remarks), 12127  
European Economic Community, agricul-  
tural trade, 1959-64, statistical refer-  
ence, 2174  
foreign agricultural trade, 4100  
by commodities, 6174, 13951  
by countries, 10927, 16495  
monthly, 3343  
foreign business practices, 9602  
foreign market reports service, Haling,  
12653  
foreign trade—  
FT reports, 3351-59, 3987, 3993, 3998-  
4006, 4362, 8956-59, 8961, 10399,  
12087-89, 14836, 17441  
future of U.S. policy—  
hearings, 16146  
subcommittee report, 16147  
issues and objectives of U.S. policy,  
statements, compendium, 16148  
peaceful engagement with the East  
(address), 234  
removing barriers (address), 16096  
role in U.S. economy (address), 16098  
sell your products with business pro-  
posals carried abroad by U.S. trade  
missions, 6466  
United States, 1960-66, annual, 14881  
United States 1965 and 1966, prelimi-  
nary, 7579  
foreign trade regulations—  
Angola, 7574  
Arabian Gulf States, 17480  
Bahamas, 7576  
Barbados, 9019  
Bermuda, 9017  
Brazil, 17479  
Central America Common Market,  
17478  
Chile, 17482  
Columbia, 16100  
Dominican Republic, 4442  
Ecuador, 16101  
Finland, 17481  
Ghana, 4432  
Guyana, 230  
Haiti, 13457  
India, 9014  
Iran, 17474  
Israel, 9020  
Korea, Republic, 16106  
Malaysia, 13458  
Mozambique, 4437

Commerce—Continued  
 foreign trade regulations—continued  
     Netherlands Antilles, 13460  
     Paraguay, 4446  
     Sierra Leone, 12135  
     Somali Republic, 12137  
     Surinam, 4441, 12134  
     Turkey, 12136  
     Zambia, 10459  
 foreign trade statistics—  
     country designations, code classification, schedule C, 4358, 8849  
     regulations, compilation, 8960  
     U.S., classifications and cross-classifications, 17440  
     U.S. districts and ports, code classification, schedule D, 4359, 8936  
 future international meetings, world list, 4074  
 future U.S. world trade policy (address), 18218  
 international agricultural trade, terms used, 9524  
 international commerce (periodical), 3434  
     supplements, 2417, 17853  
 international trade (addresses), 6300, 7571, 8224, 10455-456, 10466, 14663  
 international trade, encouragement, convention with Trinidad and Tobago—  
     hearing, 17651  
     message from the President, 6063  
     report, 17620  
 interstate—  
     establishment of fair labor standards in employments, 2970  
 fresh potatoes purchased or sold in interstate commerce, require to be labeled according to State in which grown, hearing, 17649  
 interstate commerce act—  
     amend  
         hearings, 947, 16399  
         law, 508  
         reports, 890, 16374  
     annotated—  
         advance bulletins, 2987  
         1962 supplement, 6475  
 interstate taxation act, reports, 9084, 13682  
 laws, compilation, 1990  
 publications, price list, 7053  
 interstate or foreign, abusive and harassing telephone calls, amend communications act—  
     hearings, 10826  
     reports, 4582, 9294  
 intoxicating liquors, require interstate shipments be accompanied by bill of lading, amend U.S. Code, report, 16254  
 lake, passing through canals at Sault Ste. Marie, Mich. and Ontario, 6208  
 overseas, sample display service, new way to find agents and distributors, 4923, 14207  
 Pacific Northwest forest industries, trade, 3774  
 publications, price list, 5418  
 Scandinavia today, billion dollar U.S. market, 9603  
 steamship lines in foreign commerce of U.S., approved conference, rate and interconference agreements, 3037, 16576  
 summaries of trade and tariff information, 7203, 8765, 18237  
 technology and world trade for economic development, symposium proceedings, 8520  
 trade agreements with—  
     Canada, 17247  
     Great Britain, 15803  
     Japan, 15802  
 trade and investment in developing countries, report, 9026  
 trade expansion act of 1962, legislative history, 7761

Commerce—Continued  
 trade expansion program of American Steamship Lines Committee (remarks), 10467  
 trade winds, good trade like good winds make for easy sailing (address), 17483  
 U.S. commercial exhibitions, how to photograph, 7566  
 U.S. trade policy, task after Kennedy Round (address), 2936  
 United States oceanborne foreign trade, 1966 review, 17909  
 United States position in world trade (statement), 17854  
 United States trade with—  
     Communist areas in Eastern Europe and Asia, 16108  
     Puerto Rico and U.S. possessions, monthly report, 3359  
     major world areas, 1942, 4436, 10460  
     waterborne transportation, inter-American convention, report, 6065  
     waterborne, U.S. life lines, impact on American industrial productivity, 8574  
     world agricultural trade, Brazil's position, 17713  
 world trade—  
     recent developments (remarks), 1953  
     tallow & greases, 4817  
     technology and world trade (remarks), 1958  
     through open markets (remarks), 1654  
*see also* Imports—Navigation—also certain headings beginning Commercial—also names or classes of articles of commerce—also names of countries and places.  
 Commerce Committee, Senate :  
     calendar, 3492  
     committee prints, 10828, 16404  
     hearings, 945-948, 2109-12, 4634-36, 6093-95, 7802, 9310, 10823-827, 12403-406, 13850-856, 15153, 16398-403, 17645-649  
     investigations and studies, authorization, report, 6077  
     reports, 887-892, 4577, 4582, 4585, 9294, 10756, 10758, 10760-764, 12367-368, 12378, 13825, 15065, 15084, 15103, 15107, 15143, 16374, 17628, 17632  
 Commerce Department :  
     activities, 17484  
     activities, accomplishments, etc. (remarks), 4427  
     agency of business, promotes economic growth, guidebook, 5963  
     annual report, 7562  
     appropriations, 1967, law, 501  
     appropriations, 1968—  
         hearings, 10632, 16390  
         report, 10616, 16372  
     Assistant Secretary, nomination of—  
         McQuade, Lawrence C., hearing, 13855  
         Shaw, William H., hearings, 6094  
     audit activities, efficiency, etc., GAO review, 14158  
     Boulder laboratories, general information, 16097  
     cooperative offices, partners in progress, 1948  
     maritime functions, transfer to independent administration—  
         hearings, 16335  
     maritime functions, transfer to independent administration  
         reports, 15009, 16278  
     marketing and distribution, objectives (address), 245  
     marketing services to aid for business (address), 1825  
     meeting with officials, hearings, 9150  
     new role in marketing (address), 227  
     news, 16477  
     press releases, 3713



# INDEX 1967

Commerce Department—Continued  
 primary agency of Government responsible for dealing with business and business problems (address), 142  
 promote economic growth, 17484  
 publications, 1965, supplement, 4454  
 role in urban economic revitalization (address), 16479  
 Secretary—  
   ex officio member of American Revolution Bicentennial Commission, 13681  
   nomination of Alexander B. Trowbridge, hearing, 12406  
   transfer certain functions relating to ship mortgages—  
     hearings, 9159, 10849  
     message from the President, 7598  
 State Technical Services Office, annual report, 7572  
 telephone directory, 16110  
 Commercial aviation, *see* Air carriers.  
 Commercial banks, *see* Banks and banking.  
 Commercial fisheries, *see* Fish and fisheries.  
 Commercial Fisheries Bureau:  
   annual report, 4807, 15266  
   appropriations, 1968, hearings, 7734  
 biological laboratories—  
   Beaufort, N.C., tagging summary of American shad, and striped bass, 8037  
   Galveston, Tex., report, 17773  
   Gulf Breeze, Fla., report, 14055  
   graduate educational grants, 17774  
   new publications, monthly list, 3577  
   region 2, exploratory fishing and gear research, report, 2275  
 Technological Laboratory, Pascagoula, Miss., reports, 4801, 16620  
 Commercial policy:  
   Kennedy Round, trade policies, hearing, 7805  
   our future trade policy, quotas or competition? (address), 18220  
   trade policy and problems (remarks), 11886  
 Commercial practices, code of Federal regulations, 6274-75  
 Commercial products:  
   census of business, 1963, merchandise line sales, retail trade, statistics, bound volumes, 5818, 8931, 10341  
   commodity classification for transportation, statistics, 13352  
   commodity transportation survey, census 1963—  
     commodity groups, 1856, 7472  
     shipper groups, 1855  
     shipper groups and production areas, 7473  
   domestic merchandise, U.S. exports, 1965 statistics, 8961  
 exports—  
   foreign trade reports, 3354-55, 8959, 12087-89  
   statistical classification, schedule B, 1857, 3849, 5895-97, 7474  
 imports—  
   foreign trade reports, 3351, 8956-59, 14836  
   Puerto Rican shipments, commodity classification, schedule P, 10386  
 markets for U.S. products—  
   Chile, 2417  
   Taiwan, 17853  
 merchandise—  
   exports, summary reports, 4005  
   imports, summary reports, 4006  
   potential demand, 1970 projections, 2508  
   product standard PS (series), 5285-87, 6918-19, 11586-587, 12988, 17037  
   product standards of Shanghai Municipal Bureau of Machine and Electrical Industries, Communist China, 12759  
   products list circular, new products development for small business, 3775  
   rail revenue contribution by commodity and territory, 8234

Commercial products—Continued  
 sell your products with business proposals carried abroad by U.S. trade missions, 6466  
 tariff treatment of articles assembled abroad of products of U.S., law, 510  
 technology and your new products, 13118  
 transporting merchandise to southeastern Alaska in part over Canadian highways, exempt from Merchant marine act, report, 15107  
 USSR consumer goods and domestic trade, translations, 3970  
 Vietnam commodity import program, followup investigation, report, 14997  
*see also* names of products.  
 Commercial standards, *see* Standards and standardization.  
 Commercial treaties:  
   economic relations with—  
     Thailand, report, 15063  
     Togolese Republic, treaty, 8743  
   trade agreement with Argentina, 2918  
   trade agreements and adjustment assistance programs, code of Federal regulations, 11046  
   trade agreements program, 1965, report—  
     departmental edition, 5404  
     document edition, 4469  
   trade agreements, program operations, July 1963-June 1964, report, 5564  
   trade expansion act of 1962, legislative history, 7761  
*see also* General agreement on tariffs and trade.  
 Commercial warehouse service plan for Department of Defense agencies, 15182  
 Commissaries, stores, grocery department operations, technical manual, change, 7396  
 Commission for Educational and Cultural Exchange between United States of America and United Arab Republic, agreement, 11870  
 Commission for Educational Exchange between United States and Brazil, agreement, 11837  
 Commission on Balanced Economic Development, *see* Balanced Economic Development Commission.  
 Commission on Government Procurement, *see* Government Procurement Commission.  
 Commission on Pennsylvania Avenue, *see* Pennsylvania Avenue Commission.  
 Commission on Revision of Criminal Laws of District of Columbia, establish, hearings, 10644  
 Commissioned officers, *see* Coast Guard Reserve—Public Health Service.  
 Commissioners, *see* United States commissioners.  
 Commissioners of District of Columbia, *see* District of Columbia.  
 Commissions, *see* names of commissions.  
 Commitment for progress, the Americas plan for decade of urgency, 11828  
 Committee on Education, President's Commission on Status of Women, report, excerpts on counseling and guidance, 7236  
 Committees:  
   county ASCS employees, extend benefits to—  
     hearings, 10870, 17609  
     report, 13807  
   safety committee activities, 9715, 16806  
*see also* Congressional committees.  
 Commodities, *see*, Agricultural products—  
   Commercial products—*also* names of commodities.  
 Commodity Credit Corporation:  
   acquisition and disposal by CCC of farm commodities, 19  
   appropriations, 1968, hearings, 10629  
   audit report, 7611  
   corn marketing, impact on small business, report, 668



Commodity Credit Corporation—Continued  
cotton inventory management, GAO follow-up review, 15297  
financial condition and operations, 3819  
financial statements, GAO examination, 8132  
grain, comparison of costs of storing on farm with rates paid for such storage, GAO report, 2342  
operations, June 30, 1966, graphic summary, charts, 9027  
orderly liquidation of stocks of agricultural commodities held by CCC, etc., 5665  
rice marketing excess, delivery to, report, 16369  
sale of grain storage facilities, law, 12159  
sales list, monthly, 3083  
savings if interest costs on repaid price-support loans and storage facility and equipment loans are recovered, GAO report, 16678  
statutes, compilation, 7262  
wheat export program, GAO review, 14159  
wheat marketing allocation program, need to further revise regulations to minimize loss to Government, 1100  
Commodity Exchange Authority, appropriations, 1968, hearings, 10629, 12397  
Commodity exchanges:  
act, amend—  
hearings, 16302  
reports, 16297, 17582  
code of Federal regulations, 12524  
commodity futures statistics, July 1965-June 1966, 4146  
Common carriers, see Communications.  
Common Market, see European Economic Community.  
Commonwealth Parliamentary Association conference, Ottawa, Canada, report of U.S. delegation, 4637  
Communicable Disease Center, Bureau of State Services, accounting system, review, GAO report, 1101  
Communication (psychology):  
communicating by language, speech process, conference proceedings, 7061  
Communications:  
act of 1934, amend—  
hearings, 10824, 10826, 13710, 16400  
reports, 4582, 9294, 10756, 14980, 16245  
aeronautical, ATS handbook, 2991  
Air Force, officers jobs, types, 15892  
Alaska earthquake, Mar. 27, 1964, effects on transportation, communications, and utilities (series), 6402, 12609  
Alaska, long-lines facilities, Government-owned, disposal—  
hearings, 16307  
reports, 10747, 16262  
antimechanized operations, Fleet Marine Force manual, 16841  
automated, AF manual, 10218  
cable communication lines, USSR book excerpts, 15392  
career opportunities, State Department, world-wide assignments, 5524  
carriers, discontinuance of service, FCC rules and regulations, 3279  
channels, monitor assurance availability and quality, 8460  
circuits, spare, Government-owned in Europe, use by Defense Dept., GAO report, 16672  
common carriers—  
and affiliates, reports, FCC rules and regulations, 3279  
miscellaneous rules, FCC rules and regulations, 3279  
preservation of records, FCC rules and regulations, 3279  
statistics, 7935

Communications—Continued  
electronics activities—  
basic C-E concepts and relationships, manual, 10217  
commercial services for Air Force, manual, 4164  
facility and system planning, 10219  
terminology, Air Force manual, 8856  
electronics, principles and applications of mathematics, technical manual, change, 15953  
electronics reference data, Army field manual, 4164  
equipment—  
current industrial reports, 5856  
Federal item identification guides for supply cataloging, supplements, 3289  
facilities between Alaska and U.S. mainland, savings from more economical use, Air Force Dept., GAO report, 15301  
Federal Communications Commission rules and regulations, transmittal sheets, 3279  
industry wage survey, 6604  
information transmission systems, quantum effects, 18057  
maintenance of air-ground facilities, FAA handbook, 10980  
modern communications and foreign policy, report, 10623  
personal communication system combines high performance with miniaturization, 11456  
problems of information transmission (USSR periodical), 3772  
radio science (periodical), 3803  
satellite—  
act of 1962, report on activities, etc., message from the President, 9066  
bibliography, 11433  
Government use, 1967—  
hearings, 13707  
report, 15000  
passive, orbit position control, handbook, 11398  
Syncom engineering report, 11556  
scientific and technical, U.S. Government, progress, 6244  
system and depots in metropolitan France, agreement with France, 5551  
use of Federal Aviation Agency systems, FAA regulations, 11004  
USSR—  
herald of communications (periodical), 3397  
translations, 3969  
see also Electronics—Military communications—Radio communication—Space communications—Telecommunication—Telephone.  
Communications relay equipment operator, see Electronics mechanics.  
Communicator, National Conference on Air Pollution, 3594  
Communism:  
Bolshevization of Islam, 6496  
building of communism and world revolutionary process, USSR study, 12715  
Caribbean threat to U.S., hearings, 957, 2125, 7816  
Communist Party representatives of Arab countries, conference resolutions, 12718  
Communist world in 1967, hearing, 6101  
contemporary International Communist workers, and national-liberation movement, USSR studies, 5003-4  
cybernetics in service of, information theory, computer technology, and semiotics, 12742  
insurgent infrastructure in South Vietnam, organization and strategy, 13298  
international developments, translations, 3960  
Latin America, activities, 1967—  
hearings, 12298  
report, 12285  
Leninist norms of party life, 1258

## Communism—Continued

- Mao's cultural revolution, review by USSR's Literary gazette, 12760
- organizations, registration, etc., amend internal security act, report, 16290
- peaceful engagement with the East (address), 234
- problems (periodical), 3771
- religion, Communist exploitation, hearing, print additional copies, report, 12371
- scientific principles, USSR study, 12682
- Soviet propaganda, techniques, 12322
- print as Senate document, report, 12372
- USSR, Kommunist (periodical), translations, 3947
- Vietnam, Communist-directed forces, 8715, 13137
- world movement, 1818-1957, selective chronology, 12206
- print as House document, reports, 10593, 10787
- world strength of Communist Party organizations, 13155
- see also Un-American activities.
- Communist China, see China.
- Communist International, activities of Third International, Polish discussion, 5007
- Communist Party of Bulgaria:
  - and development of natural sciences, 9th congress, 2465
  - 9th Congress, hydrometeorological service tasks discussed, 11253
  - organizational fundamentals, principles and standards of party life, 6566
- Communist Party of France, social composition and evolution, 9651
- Communist Party of Iraq, Communist movement in Iraq, translation, 14261
- Communist Party of Poland, 3d international activities, discussion, 5007
- Communist Party of Soviet Union:
  - Leninist norms of party life, 1258
  - 23d Congress, on struggle against imperialist ideology, USSR study, 9654
- Communist Party of Ukraine, general progress of Ukraine under Soviet power, central committee review, USSR study, 6576
- Communist Party of United States
  - Communist origin and manipulation of Vietnam Week, Apr. 8-15, 1967, report, 7757
  - Soviet pawn, 6114
- Communities, see Cities and towns—Rural communities.
- Community and family service for civil defense, 16050
- Community centers, national fallout shelter design competition, awards, 16060
- see also Recreation centers.
- Community development and civil defense, 16059
- Community development programs:
  - community action programs—
    - amendments to economic opportunity act, narrative summary, 9382
    - directories, grantees, 982, 7873, 10906
    - management information reporting by community action agencies, quarterly report, 13939
  - declaration of objectives for older Americans, is your community ready?, 10145
  - district act of 1966, rural America, planning of public services, etc., reports, 622, 10748
  - Federal assistance programs, catalog, 12447
  - Federal-State programs for developing community resources, 6248
  - films, filmstrips, slides, and audio tapes, bibliography, 11204

## Community development programs—Con.

- Head Start child development programs, how to apply for, instructions, 6163
- manual of policies and instructions, 16483
- homes, etc., publications, price list, 7057
- Peace Corps, 5375
- Small Business Administration, loans under 502 program, 11789
- smaller communities program brings industries and jobs to rural areas, 2195
- understanding war on poverty, public affairs handbook, 13940
- workable program for community improvement, citizens advisory committees, guide, 9579
- Community facilities:
  - and Public Health Service hospitals, cooperative activities—
    - hearings, 12305, 17670
    - reports, 16230, 16247
  - care of mentally ill, annotated bibliography, 1590
  - centers with fallout shelter as dual-purpose space, Brooklyn architects competition, awards, 7529
  - enriching community life, Federal assistance program for neighborhood facilities, 2380
  - mental health centers, bold new approach, 13070
  - film announcement, 17138
  - mental retardation facilities, extend, etc., laws—
    - hearings, 10659, 17666
    - reports, 14971, 16246
  - mentally retarded, progress report, 14629
  - neighborhood service centers, services offered, problems, etc., 5595
  - see also Public facilities.
- Community health, see Health.
- Community life:
  - community involvement in civil defense, suggestions by American National Red Cross, 16051
  - community planning for health, education, and welfare, bibliography, 16540
  - senior citizens month 1967, guide to community action and year-round activity, 8802
  - see also Neighborhoods.
- Community planning for nursing in District of Columbia metropolitan area, 18158
- Community relations, one million dropouts, Sputnik of 1967, people willing to help, 17721
- Community Relations Service:
  - annual report, 10472
  - appropriations, increase, message from the President, 12199
  - CRS media relations, informational monitoring service, 3165
  - press releases, 3714
- Community surveys:
  - Atlantida, case study in household sample surveys—
    - content and design of household surveys, Spanish edition, 5898
    - distribution and receipt of material, 1885
    - editing and coding, 4360
    - field operations, instruction manuals, 182
    - population data controls, Spanish edition, 5899
    - survey objectives and description of country, Spanish edition, 7496
    - tabulation process, 7497
    - workbook for case study, 10387
  - handicapped workers, challenge of employment barriers, 1968 report theme contest, 11th and 12th grade students, announcement, 15667
  - wages, 6615

- Community work and training program, message from the President, 7606
- Commutators, current steering commutator offers versatility, 18005
- Commuter railroad cars, *see* Railroad cars.
- Compact (interstate), *see* Interstate agreements.
- Companies:  
 acceptable as sureties on Federal bonds, list, 15811  
 engaged in dual distribution, require disclosure of separate annual operating data, etc., hearings, 6115  
 filing annual reports with SEC, directory, 13112
- Comparative decay resistance of heartwood of native species, 8065
- Comparators, thermoelectric metal comparator determines composition of metals and alloys, 8387
- Compare, Cicill, relief of children, 610
- Comparison of recent projections of United States population, 11792
- Compartments, pools, and spaces in medical physiology, symposium, 15959
- Compatibility, biaxially stressed D-43 alloy with refluxing potassium, 11422
- Compendium of medical advertising, 14074
- Compensation, *see* Employers' liability and workmen's compensation—Salaries—Wages.
- Competition:  
 air transportation industry (talk), 7519  
 are planning and regulation replacing competition in new industrial state? hearing, 16438  
 drug industry, problems, present status, hearings, 16436, 17677  
 oil shale development, competitive aspects, hearings, 17659
- Competitive position of U.S. farm products in Japanese market, 995
- Compilation of treaties and agreements of interest to Navy, 11291
- Compliance officer's manual, handbook of compliance procedures under title 6 of civil rights act of 1964, 1906
- Composite bulkhead fabrication development, 6752
- Composite materials:  
 analyses of composite structures, 2602  
 coating or plastic compositions, classification definitions, 8605  
 discontinuous-fiber composites, metallurgical and geometrical factors affecting elevated-temperature tensile properties, 8498, 14451  
 filamentary, high-performance, Air Force basic research, 15890  
 industrial evaluation of radiation processed wood-plastic composites, 5780  
 JT graphite, oxidation, static, subsonic, and supersonic tests, 18053  
 new metal and metal-ceramic composites, 5194  
 phenolic nylon, effect of composition on ablative performance, 9889  
 porous metal and solid lubricants increase bearing life, 6742  
 space vehicle application, investigation, 12861  
 thermal and mechanical properties of non-degraded and thermally degraded phenolic-carbon composite, 16917  
 tungsten-fiber-reinforced copper stress-rupture and creep properties, 17002  
 weld rod corrects individual filler weaknesses, 9862
- Compositors, *see* Printers.
- Compound interest tables for long-term planning in forestry, 13212
- Compounds, new class, has very low vapor pressures, 12838  
*see also* names or classes of compounds, or purpose for which used.
- Comprehensive care services in your community, 5426
- Comprehensive export schedules, 3127, 8223
- Compressed air mediciae, *see* Medicine.
- Compressed gases, *see* Gases.
- Compressibility, Burnett apparatus, PVT data, method for treating, 16863
- Compression processors, *see* Processors.
- Compression tests of open-face truss-core sandwich panels, 5255
- Compressive behavior of plates fabricated from glass filaments and epoxy resin, 9895
- Compressors:  
 Air, trailer-mounted, rigging for airdrop, 15951  
 axial-flow, inlet stages under high loading, aspect ratio and curvature variations, 9916  
 blade vibration, reduced by wire material, 6824  
 Burnett compressibility apparatus, PVT data, method for treating, 16863  
 current industrial reports, 4337, 17434  
 Federal item identification guides for supply cataloging, supplements, 3288  
 numeric and alphanumeric algorithms, solid system, 14519  
 parametric study of advanced multistage axial-flow, 11419  
 reciprocating, rotary, and centrifugal, Federal item identification guide, 13916  
 rigging 210 CFM Davey, trailer-mounted air compressor, Army technical manual, 113  
 single-stage axial-flow, contribution of downstream stator to interaction noise, 9882
- Compton effect, internal, 1430
- Comptroller General, *see* General Accounting Office.
- Comptroller of Currency:  
 nomination of William B. Camp, hearing, 4632  
 regulatory authority, strengthen—  
     law, 409  
     reports, 666, 674, 691  
 report, 1965-66—  
     departmental edition, 9028  
     document edition, 9050
- Comptrollers, Air Force comptroller (periodical), 15879
- Compulsory education, attendance, State laws, summaries, etc., 2191
- Computational procedure for finite difference solution of one-dimensional heat conduction problems reduces computer time, 2675
- Computations, *see* Numerical calculations.
- Computer operators, examination announcement, 14857
- Computer program utilizes FORTRAN IV subroutines for contour plotting, 16958
- Computer technicians, examination announcement, 14857
- Computers:  
 and administrative efficiency, USSR study, 6506  
 automatic control, industrial application, 6509  
 computer specialists, computer programmer, computer systems analyst, examination announcement, 13441  
 electrocardiography and public health, report of recent studies, 11723  
 engineering, education problems, 1321  
 fluid digital computation systems, feasibility study, 12907  
 French, Soviet views, 1270  
 naval weather service computer products manual, 15618  
 technology—  
     cybernetics in service of Communism, USSR studies, 12742  
     state in Czechoslovakia, 15409  
*see also* Electronic computers.
- Computing machines, *see* Calculating machines.

# INDEX 1967

- Comstock, G. L., dimensional changes in kiln-dried softwood lumber after surfacing and during storage, 2300
- Concentrated foods, *see* names or classes of foods.
- Concentration measurements of injected gas in supersonic stream, 8489
- Concepcion Garcia, Carlos V. De La, relief, 9252, 13491, 13596
- Conceptual design of 250 MGD desalination plant, 2396
- Conceptual design study of 50 million gallon per day MSF desalination plant and test module, 8216
- Conceptual design study of one million gallon per day MSM desalination plant-replacement for demonstration plant no. 2 at Point Loma, San Diego, Calif., 15330
- Concert and conciliation, next stage of Atlantic alliance, 18232
- Concessions, National Zoological Park, negotiate cooperative agreements granting, law, 476
- Concrete:  
and concreting materials exposed to natural weathering, performance, investigation, 6214  
brick and block industry, work injuries and accident causes, 16813  
cement performance in concrete, 16528  
field sonoscope tests, 10-year summary of results, 7934  
incinerator, building plan, 4124  
mass, containing 3- and 6-in. maximum size, crushed limestone coarse aggregate, comparison of properties, 4745, 6216  
pavements—  
emergency construction, standard practice, Army technical manual, 1769  
nondestructive testing, evaluation of Dynaflect, 16524  
placements in building construction projects, inspection controls, Public Buildings Service, GAO review, 11153  
post-stressed foundation may reduce machinery vibration, 15489  
prestressed, beams, durability and behavior, investigation, 9424  
prestressed concrete reactor vessel—  
model 1, 13320  
model 2, 13321  
prestressed concrete vessel for boiling-water reactor, 13319  
reinforced—  
slabs, influence of reinforcing details on yield line pattern and ultimate load-carrying capacity, 17736  
supports for overhead lines, 6536  
St. Lawrence Seaway, investigation of concrete in locks, 13987  
stem for access hole, Project Pre-Schooner, design, etc., 17395  
strengths and air contents, freezing and thawing tests, 13986  
structural design for buildings, Army technical manual, 7391  
surfaces—  
deteriorous effects of form lumber on, 13988  
formed, reducing size and number of voids, methods, 16529  
vibration, review of literature, 13985  
winter construction practices, earthwork, survey, 98  
wire bar supports for reinforced concrete construction, standard of trade, 6919  
workability, measuring by vibrating slope method, 4742  
*see also* Masonry.
- Conde, Augusto J. Fernandez, *see* Fernandez-Conde, Augusto J.
- Condello, Angiolina, relief, 10537, 13479, 13737
- Condensation:  
condensing mercury flow in 0- and 1-G environments, photographic study, 12939
- Condensation—Continued  
freon-113 condensing in downward flow in vertical tube, local heat-transfer and pressure distributions, 11510  
high velocity steam within tube, local heat-transfer coefficients and static pressures, 9911  
mechanisms, research, 1140
- Condensed milk, *see* Milk.
- Condenser tubes, *see* Tubes.
- Condensers (vapors and gases):  
steady-state performance of potassium condenser, 12937  
steam, industrial plant equipment handbook, 977
- Condom Valera, Jaime E., relief, 558
- Condominium housing, *see* Housing.
- Conduct of life:  
Armed Forces—  
code of conduct, Army pamphlet, 1764  
U.S. fighting man's code, DoD pamphlet, 13286  
Job Corps staff code, 9381  
social usage abroad, guide for American officials and their families, 8712
- Conduction of heat, *see* Heat transfer.
- Conductivity (electric), *see* Electric conductivity.
- Conductors (electric), *see* Electric conductors.
- Conduits, fittings, Federal item identification guide, 15183  
*see also* Electric conduits.
- Cones:  
ablating conical teflon models, static aerodynamic characteristics, measured and computed, 11555  
aerodynamic characteristics for cone-cylinder-frustum-cylinder configurations, 9804  
blunt 120° configurations, low subsonic static and dynamic stability characteristics, 6893  
boundary-layer transition on cooled 7.5° total-angle cone at Mach 10, 18021  
high-drag bodies, aerodynamic drag characteristics, 9892  
hypersonic viscous drag in rarefied flow, 12949  
oscillating problem, solved in supersonic flow by small perturbation techniques, 6849  
semiaxex angle 40°, reentry configuration, subsonic longitudinal aerodynamic characteristics, 2701  
spherically blunted—  
aerodynamic characteristics at Mach 20, 14488  
with base flares, aerodynamic characteristics, 1486  
viscous hypersonic flow past slender cone, 9927  
*see also* names of conifers.
- Confectionery:  
current industrial reports, 3169, 12069  
manufacturers' sales and distribution, 7449, 10328
- Confederate records, Treasury Department collection, preliminary inventory, 18074
- Confederated Bands of Ute Indian Tribes, *see* Ute Indians.
- Confederated Salish and Kootenai Tribes of Flathead Reservation, *see* Flathead Indians.
- Confederation of Canada, *see* Canada.
- Conference committees, reports, 628, 638, 645-647, 650, 652, 663-664, 672, 679, 681, 691, 701-702, 704, 706, 4502, 4504, 7673, 9081, 9110, 9134, 10563, 10611, 10614, 12252, 12255, 13629, 13657-658, 13667, 13672, 13689, 14946, 14963, 14987, 16244, 16251-252, 16261, 16265, 16277, 16284, 16287, 16291, 16300, 17573, 17576, 17580
- Conference of State Societies, Washington, D.C., change name, report, 9132

Conferences, congresses, etc.:  
 conferences in Soviet bloc (periodical), 3130  
 future international meetings, world list, 4073-74  
 international organization and conference series, 5528-30, 8719-20, 11830, 14679, 18232  
 organizing and conducting cooperatives' annual meetings, 15234  
 President's Committee on Mental Retardation, 1st meeting, 7047  
 union conventions, 1967, list, 14306  
*see also* names of conferences, etc.—*also* subject of conference.

Confessions (law):  
 admissibility in evidence, hearings, 15166

Configurations:  
 atmospheric probe, stability and drag characteristics at Mach numbers, 9894  
 come, blunt 120°, low subsonic and dynamic stability characteristics, 6893  
 cone-cylinder-frustum-cylinder, aerodynamic characteristics, linear load distributions, 9804  
 configuration geometry, effects on supersonic aerodynamic characteristics of launch vehicle, 5239  
 conical reentry, subsonic longitudinal aerodynamic characteristics, 2701  
 diamond-cross-section delta-wing, hypersonic performance, 9884  
 dual tandem, longitudinal aerodynamic characteristics in ground effect of large scale, V/STOL model with 4 tilting ducted fans, 18045  
 4-propeller tilt-wing, ground effects over fixed and moving ground plane, 11504  
 general, Apollo wind tunnel testing program, historical development, 2722  
 highly redundant structural, improved computer program for elastic analysis, 17960  
 jet pluming effects on static stability of ballistic bodies at Mach number of 6.00, 2691  
 low-speed dynamic-model investigation of Apollo command module configurations in Langley spin tunnel, 14452  
 memory word line configuration allows high storage density, 6780  
 modifications, effects on aerodynamic characteristics of tension shell shapes, 14475  
 paraglider, having large tapered leading edges and keel, free-flight drop-test, 1475  
 system enables dimensional inspection of very large structures, 14422  
 variable-sweep wing-fuselage, effect of skewed wing-tip controls, 8487  
*see also* Tension shells.

Confinement facilities, *see* Disciplinary barracks.

Congo (Brazzaville):  
 background notes, 15759  
 labor conditions, 1370

Congo (Kinshasa):  
 agricultural commodities, agreements, 5535, 11840  
 labor conditions, 1371

Congo (Léopoldville):  
 agricultural commodities, agreement, 2886  
 mineral industry, minerals yearbook chapter, 12800

Congress, Joint Committee on Organization of:  
 continuation, reports, 4519, 4595  
 hearings, 4459

Congress of United States:  
 code of Federal regulations, 16586  
 concern with research and development, bibliography, 4641

Congress of United States—Continued  
 congressional record—  
 daily, 3131-32  
 89th Cong., 1st sess., bound volumes, 5965-66  
 daily digest, 4456  
 index, 9029  
 89th Cong., 2d sess., bound volumes, 13470-471, 14883, 16113-118, 17485  
 date of meeting, 90th Congress, law, 418  
 directory—  
 official edition, 90th Congress, 1st sess., 7586  
 pictorial, 90th Congress, 5969  
 District of Columbia representation, amend U.S. Constitution, hearings, 15044  
 enactment of law, procedural steps, 13720  
 joint activities, appropriations, 1968, legislative—  
 law, 13537  
 reports, 10617, 13672, 13813  
 legislative reorganization act of 1946, amend, report, 10754  
 legislative reorganization act of 1967, report, 4590  
 major legislative actions, 90th Congress, 9047, 10494, 13548  
 members, franked mail covers, amend United States Code, hearings, 17607  
 monopoly problem, antitrust field, 1890-1966, history of congressional action, 4561  
 organization, hearings, appendix, 4459  
 reports to be made to Congress, list, 4485  
 Republican report, 89th Congress, 2d session, supplement, 4572  
 summary of legislative record and digest of major accomplishments, 89th Congress, 2d session, 767  
 women of 90th Congress, biographies, 14728  
*see also* Congressional documents—Senate.

Congress, Special Committee on Organization of, Senate:  
 establish, hearing, 961  
 extension, reports, 9278, 12374  
 report, 4590

Congressional committees:  
 hearings, Jan. 3, 1963-Jan. 3, 1967, index, 13472  
 investigating staffs, payment of compensation, report, 7681  
 Senate, list and assignments of Senators, 758, 9179  
 Senate subcommittees, select, joint, and special committees, list, 7766

Congressional directory, *see* Congress of United States.

Congressional districts:  
 90th Congress—  
 atlas, 1858  
 identification of counties and selected places, 4356, 16029  
 population, 4301  
 redistricted States, 183, 1886-88  
 redistricting standards, establish, reports, 9121, 9126, 10793, 13657, 17573

Congressional documents, numerical lists and schedule of volumes, 89th Congress, 2d session, 10036

Congressional record, *see* Congress of United States.

Congressional serial set, 247-249, 1967-69, 4458, 7587, 10473-475, 12141-142, 16119-121, 17486-489  
 schedule of volumes, 89th Congress, 2d session, 10036

Conifers:  
 for western Iowa, 8107  
 mixed clearcuttings, regeneration on Apache National Forest, Ariz., 11126  
 regeneration in southeast Alaska, effects of slash burning, 4834  
 snow damage to seedlings and saplings, 1091

## Conifers—Continued

- young-growth mixed stands, clearcut harvesting costs and production rates, 4841
- Conjugate-pair feed systems, 5360
- Conkie, J. P., contaminants produced by man in space cabin simulator, 11955
- Conkie, M. Thompson, winter injury among white fir seedlings, 14107
- Conklin, Maxwell R., address, Oct. 4, 1966, 181
- Conklin, Paul, good day at Rough Rock, 9400
- Conley, Michael C., Communist insurgent infrastructure in South Vietnam, organization strategy, 13298
- Conneaut, Ohio:
  - improvement of harbor, engineer report—departmental edition, 2208
  - document edition, 2000
- Connecticut:
  - area measurement reports, 7456, 10335
  - census of agriculture, 1964, State and county statistics, 7502
  - census of manufactures, 1963, area statistics, 1833
  - census of mineral industries, 1963, area statistics, 4282
  - cities, housing codes and their enforcement, 14852
  - county business patterns, 10347
  - electric rate book, 11019
- Connectors (electric):
  - abraded cadmium-plated cable, repaired by conversion coating, 6746
  - clamp provides efficient connection for high-density currents, 11469
  - connector for saturated standard cells, 11590
  - cracks in glass electrical connector headers removed by dry blasting with fine abrasive, 12886
  - edge-type, evaluated by electrical noise measurement, 11462
  - feed-through connector couples rf power into vacuum chamber, 8386
  - metal boot permits fabrication of hermetically sealed splices in metal sheathed instrumentation cables, 6700
  - plug-in connector socket accepts coaxial cable end, 5144
  - posts, splices and terminals, Federal item identification guide, 10892
  - soldering electrical connections, handbook, 15517
  - substituting gold for silver improves electrical connections, 15528
  - thermocouple-flexible cable connector insulator is highly reliable, 8403
  - use as quick coupling in coaxial cable applications, 6783
  - weld joint damage, test device prevents by eliminating axial pin forces on modules, 17970
- Connectors (tube):
  - orbital tube flaring system produces tubing connectors with zero leakage, 8454
- Connell, Michael L., paper, May 1966, 10049
- Conner, Alton R., relief, 829, 9260, 13503, 13568
- Conner, Caryl, plié please, 1011
- Connor, John T.:
  - addresses, etc.—
    - Sept. 28, 1966, 241
    - Oct. 27, 1966, 240
    - Oct. 28, 1966, 223
    - Oct. 31, 1966, 239
    - Nov. 3, 1966, 242, 1960
    - Nov. 15, 1966, 1957, 1959
    - Nov. 16, 1966, 1958
    - Nov. 22, 1966, 1954
    - Nov. 29, 1966, 1956
    - Nov. 30, 1966, 1937, 9010
    - Dec. 14, 1966, 4450
    - Dec. 19, 1966, 4449
    - Dec. 21, 1966, 1955
  - 1967 outlook and 1966 year-end economic review, 4430

## Connor, Laurence N., jr.:

- centered 1-dimensional unsteady expansion of—
  - reacting gas mixture subject to vibrational and chemical nonequilibrium, 6891
  - vibrationally relaxing nitrogen-oxygen mixture, 6858
- Connors, D. R., identification of fission product nuclides for radiological dose calculations, etc., 13349
- Connors, Mary M., effect of wavelength and bandwidth of red light on recovery of dark adaptation, 14318
- Connors Pass quadrangle, Nev., geology, 16694
- Conscription:
  - in pursuit of equity, who serves when not all serve? report of National Advisory Commission on Selective Service, 7045
  - local board memoranda, 3521
  - selective service—
    - act, compilation, 1993
    - act of 1967:
      - law, 13527
      - reports, 10608, 12246, 12555
      - classifications, taking appeals from, 15728, 17193
      - college qualification test, bulletin of information, 5486
      - extending draft authority, etc., recommendations, message from the President, 7605
      - manpower implications, hearings, 10862
      - program, evaluation, 11786-788
      - regulations, 3871
      - short course, 17192
      - selective service (periodical), 3870
      - universal military training and service act, amend and extend, hearings, 9304, 10638
      - report, 10744
      - you and the draft, 13113
- Consells pratiques a l'intention des non-résidents, concernant les formalités douanières aux Etats-Unis d'Amérique, 15179
- Conservacion del suelo y del agua en el mundo, 14653
- Conservation, *see* Natural resources—Soil conservation—*also* subjects.
- La conservation du sol et des eaux dans le monde, 14653
- Conservation notes, 15255
- Conservation research reports, 10, 4088, 11923
- Consolazio, C. Frank:
  - energy, nitrogen, and water requirements of normal adults residing at 4300 meters for 28 days, 14806
  - metabolic aspects of acute starvation in normal humans—
    - performance and cardiovascular evaluation function, 121
    - ten days, 122
  - nutrition survey, Fort Huachuca, Ariz., 14807
  - respiratory function in normal young adults at 3475 and 4300 meters, 5753
- Consolazio, William V., dynamics of academic science, 14560
- Conspiracies, organizational conspiracies act, report, 16250
- Constitution of United States:
  - amendments—
    - District of Columbia representation in Congress, hearings, 15044
    - House of Representatives 4-year terms, hearings, 12417
    - investigation—
      - authorization, report, 4618
      - report, 10730
    - constitutional rights—
      - American Indian, hearings and investigations, summary report, 12414



- Constitution of United States—Continued  
 constitutional rights—continued  
     investigation—  
         authorization and expenses, report, 6069  
         subcommittee activities, report, 15085  
     protect Federal employees—  
         hearings, 7822  
         report, 15121  
 constitutional separation of powers be-  
 tween executive, judicial, and legislative  
 branches of Govt., study, authorization,  
 report, 4621  
 enforcement of establishment and free  
 exercise clauses of 1st amendment, re-  
 port, 10729  
 our Constitution and Government, Federal  
 textbook on citizenship, 12631-632,  
 14191, 15320  
 text, 7593, 10691  
 print as House documents, reports,  
 10588, 10784  
 with analytical index, unratified amend-  
 ments, 13533  
 Constitution Week, bulletin, 14189  
 Constitutional rights, *see* Constitution of  
 United States.  
 Construction, *see* Building — Building trades  
 — Construction industry — Earthwork  
 and structures — Installations (military)  
 — Roads and highways.  
 Construction equipment, *see* Building ma-  
 chinery.  
 Construction industry:  
     construction activity, reports, 3134  
     construction authorized, Washington,  
         D.C., area, 3133  
     construction reports, 3133-39, 4305, 5850,  
         8937, 14818  
     heavy, work injuries and work injury  
         rates, 17890  
     labor standards provisions for Public  
         Health Service grant programs, 8637  
     projects, common situs picketing—  
         hearings, 10648  
         report, 10576  
     safe work guides, 11302-306  
     safety training programs, instructor out-  
         line, demolition, 1357  
     under fair labor standards act, as  
         amended, 2969  
 USSR—  
     plans improvements in production and  
         technology, 8239  
     trends, 4984  
 Construction machinery, *see* Building ma-  
 chinery.  
 Construction mechanic 3 & 2, Navy training  
 course, 7013  
 Consuls:  
     convention with France—  
         report, 16352  
         text, etc., 9184  
     convention with Soviet Union—  
         hearings, 6103  
         report, 6067  
     foreign consular offices in United States,  
         10097  
     U.S. despatches, microcopy, pamphlet to  
         accompany, from Matamoros, 18060  
 Consultants, safety in industry, instructor  
 outline, consultative approach for safety  
 promotion, 16797  
 Consumer Advisory Council, consumer is-  
 sues, report, 5405  
 Consumer Affairs, Office of Special Assistant  
 to the President for, *see* Special Assistant  
 to the President for Consumer Affairs,  
 Office of.  
 Consumer and Marketing Service:  
     appropriations, 1968, hearings, 10629,  
         12397  
     C&MS series, 963, 2135-36, 6129-31, 7829-  
         37, 9333-53, 10873-876, 16442-443  
     Consumer and Marketing Service—Con-  
         career opportunities, agricultural com-  
         modity grader, 9356  
         costs of transporting donated commodities  
         to State agencies, GAO report, 4872  
         distribution of Government-donated food  
         commodities in Pennsylvania, GAO re-  
         port, 6381  
         publications, available, 6129  
         service and regulatory announcements,  
         964, 6132  
         services for you, 1711  
         USDA-C&MS visual aid series, 4662, 13901  
     consumer credit, *see* Credit—Installment  
         credit.  
     Consumer finance companies, *see* Finance  
         companies.  
     Consumer goods, *see* Commercial products.  
     Consumer income, *see* Consumers—Income.  
     Consumer Interests, President's Committee  
         on, *see* President's Committee on Con-  
         sumer Interests.  
 Consumers:  
     better income for farmers, balanced abun-  
         dance for consumers, 11938  
     buying indicators, series, 1878, 5884,  
         14832, 16027  
     buying intentions, automobiles, etc., 1878,  
         5884  
     confidence through advertising (remarks),  
         241  
     consumer issues, report, 5405  
     consumer relations newsletter, 3146  
     education, pennywise teenagers, 15215  
     expenditures and income, 1960-61, tables—  
         rural farm, 2522  
         rural nonfarm areas, 2493  
         urban, 2492  
         urban and rural, total, 2494  
     FDA radio-TV packet (periodical), 3804  
     Federal consumer services, guide, 13064  
     HUD consumer bulletins, 2384, 4901,  
         4903-4, 6422-28, 8197, 11199-203,  
         12623-624, 12626, 16708, 17838  
     income, average family, 16026  
     installment credit, slowdown, etc., 7997  
     interests of the elderly, hearings, 9300  
     price index—  
         city average and selected items, 3143  
         history and techniques, 2500  
         selected items and groups, 3144  
         short description, 15451  
         technical notes, 15449  
     protection—  
         Government program (address), 6588  
         how FDA works for you, 4815  
         publications, list, 8206  
         purchases of citrus fruit, juices, drinks,  
         and other products (periodical), 3145  
         response to various levels of advertising  
         for fluid milk, 17322  
         saving size and composition, 6304  
         science and consumers, 15840  
         service, USDA's report (periodical), 3873  
         services for you from USDA's Consumer  
         and Marketing Service, 1711  
     Consumption (economics):  
         selected materials consumed, 1963 census  
         of manufactures, 4277  
         *see also* Food.  
     Contacts (electric), *see* Electric contacts.  
     Contagion and contagious diseases:  
         morbidity and mortality weekly report,  
         3585  
         publications, price list, 2801  
         Soviets concern, 6540  
         Yugoslavia, current state of infectious dis-  
         eases and organization problems in pre-  
         venting and counteracting them, 15400  
     Contagious pleuropneumonia still threat to  
         U.S. cattle, 10190  
     Containers:  
         biochemical fluid containers, self-sealing  
         closure enables access, 14417  
         closures, current industrial reports, 3169,  
         13358



Containers—Continued

- container developments in transportation industry (remarks), 16578
- containerization for coordinated intermodal system of transportation (remarks), 7968
- containerization problems and benefits (remarks), 7969-70
- coverings for liquified-gas storage containers, USSR study, 15403
- customs convention, report, 6066
- cylindrical, partially liquid-filled, axisymmetric vibrations, 12942
- elastic, liquid sloshing in, 16906
- Federal item identification guides for supply cataloging, supplements, 3287
- flexible, visual aids for inspection, 13901
- glass, current industrial reports, 3169, 12071
- industry report, 3147
- low-level radioactive waste, structural integrity, 8909
- metal, visual aid for inspection, 4662
- ocean transport capability, container/barge quandary (paper), 12785
- rigid and semirigid, visual aids for inspection, 13900
- seal-off assembly permits rapid evacuation of air, 1450
- standard acts of 1916 and 1928, repeal—hearings, 754, 4636
- report, 889
- standard sizes suggested by voluntary industry associations, role of Government, hearings, 17648
- triple wall and double wall fiberboard, AMC pamphlet, 4192
- see also types of containers.
- Contaminants:
  - microcontaminant studies in sealed environments, infrared spectrophotometry utilization, 8869
  - produced by man in space cabin simulator, 11955
  - trace, in water, analytical technique for characterizing, 15532
- Contamination:
  - americium-beryllium capsules, apparatus prevents contamination, 14366
  - analysis of samples by microwave spectroscopy for trace contaminants collected by space simulator, 5711
  - environmental testing of contaminant producing materials from integrated life support systems, 11416
  - trace contaminants contained in samples from closed environment at 258 mm.hg. analysis, 10234
  - traced contaminants in closed ecologic atmospheres, 7350
  - valve effectively controls amount of contaminant in flow stream, 6838
  - see also Air pollution.
- Contested elections:
  - Lowe vs. Thompson, dismissal, etc., report, 12270
  - Mackay vs. Blackburn, report, 12271
- Contests, see names of contests, or subjects involved.
- Continental Shelf:
  - Atlantic geologic background, 4889
  - drilling on continental margin off Florida (series), 15311
  - outer Continental Shelf lands act, regulations governing administration, 1019
  - scientific and industrial research problems, USSR study, 8278
  - seismic reflection profiles along drill holes on continental margin off Florida, 15311
- Contingency planning for U.S. international monetary policy, 4461
- Contract Administration Services, production manual, 16461
- Contract Appeals Board, decisions, 3427
- Contract Appeals, Corps of Engineers, Board of, see Engineers Corps Board of Contract Appeals.

Contractions, see Abbreviations.

- Contractor report NASA CR (series), 1419-36, 2595-2613, 5157-88, 6706-28, 8405-29, 9799-9820, 11396-422, 12847-876, 14371-401, 15497-512, 16890-920, 17933-947
- Contractors:
  - data and reports, management, 5702
  - how to do business with GPO, guide, 8186
  - interstate farm labor, registration, general information, 6203
  - NASA guidelines for evaluation of contractor accounting systems, 6705
  - see also Government contracts.
- Contracts:
  - exclusive territorial franchise bill, hearings, 7817
  - franchising agreements, effect on small business, hearings, print additional copies, reports 916, 2030
  - insurance, for medical care, recovery of excess funds accumulated, GAO review, 8145
  - see also Collective bargaining—Government contracts.
- Contributions of science and technology to Federal crime insurance, 16437
- Control (vehicle), see Aircraft—Airplanes—Motor vehicles—Satellites—Spacecraft—Wings (aircraft).
- Control apparatus for spectral energy source, 18004
- Control circuit ensures solar cell operation at maximum power, 9832
- Control of dynamics of 2-phase liquid-gas weightless medium with aid of surface effects, 11562
- Control of movements in man, 12690
- Control structure, Little Sioux River, Iowa, hydraulic model investigation, 7931
- Control systems:
  - and bionics, USSR study, 1323
  - attitude, equilibrium analysis and application to, 14499
  - attitude stability acted upon by random perturbations, 11399
  - automatic—
    - determining courses of study, 1017
    - frequency, responding to Doppler frequency shift, synthesis, USSR study, 16742
    - industrial application, 6509
    - regulation of problems in statistical dynamics, USSR study, 11244
    - searchless, adaptive variable structure, principle of construction, USSR study, 4933
    - specific requirements, USSR study, 4958
  - bypass air flow for supersonic mixed-compression inlet, analysis, 12946
- contractor data and reports, management, 5702
- cybernetics and control theory, USSR study, 5021
- cybernetics in system of control sciences, USSR study, 9660
- design using analog fluidic devices, 15955
- digital, adaptive, theoretical and experimental research, 5170, 14378
- electronic flight, lunar-landing research vehicle, operational experience, 1496
- engineering aspects of design via direct method of Liapunov, 5165
- environmental, for Project Mercury, technical history, 18009
- fluid flight path, study, 16890
- gaseous, for nuclear reactor, 14485
- integrated display and control systems, simulator evaluations, 14374
- integration of control equations and problem of small time constants, 8505
- manual control, NASA-University Conference, papers, 6733
- measuring human performance with parameter tracking version of crossover model, 17944

Control systems—Continued  
multivariable—  
decoupling, design and synthesis, 18046  
manual, studies, 2-axis compensatory  
systems with separated displays and  
controls, 17934  
nonlinear, technique developed, 6725  
nuclear rocket engine at power range op-  
erating conditions, analysis, 11525  
oculometer developed to control machine  
by eye, 14376  
on-off rate command attitude control sys-  
tem of manned lunar-landing research  
vehicle, flight-test evaluation, 9888  
optimal and adaptive control theory, 8414  
passive communications satellites, orbit  
position control, handbook, 11398  
principles of control sciences applied to  
biology and medicine, USSR studies,  
1322  
reactor, based on counting and Campbell-  
ing techniques, instrumentation pro-  
gram, 7422  
self-organizing, USSR study, 9617  
solid propellant rocket engines, vortex  
valve study, 2651  
solid state circuit averages multiple sig-  
nals and rejects those varying signifi-  
cantly from the average, 15492  
space vehicle, flight, analysis and design,  
12871-876, 14383-384, 15497-503  
spacecraft, 6730  
horizon sensors accuracy, provide for  
vertical reference in earth's horizon  
radiance profile, 9802  
steering, energy absorbing, for automotive  
vehicles, Federal standard, 6318  
stick stiffness, experimental effects in  
tracking task for man-machine research,  
5174  
theory, USSR study, 4932  
thermal, considerations for manned orbit-  
ing space station, 11538  
thermionic diode controlled power system,  
development, 1433  
use of displacement, flash, and depth-of-  
flash coded displays for providing con-  
trol system information, 5354  
USSR computer centers and automatic ac-  
counting and control systems, 1340  
vestibular system and human dynamic  
space orientation, 1428  
*see also* Feedback control systems.  
Controlling cull oila trees by injecting  
herbicides, 8088  
Convection of heat, *see* Heat transfer.  
Convention of American Instructors of the  
Deaf, proceedings of 43d meeting, print  
as Senate document, report, 16363  
Conventions, *see* Conferences, congresses, etc.  
Conventions and treaties, *see* subjects.  
Converse, Harry H., two-fan crossflow ven-  
tilation system for upright grain storages,  
7248  
Converse, Henry T., jr., soil survey of Hen-  
derson County, Ky., 8698  
Converse, Richard H., diseases of raspberries  
and erect and trailing blackberries, 1681  
Converters (electric), *see* Electric current  
converters—Frequency-to-analog con-  
verter—Upconverters.  
Convulsions:  
man and experimental animals in convul-  
sive states, USSR electron microscopic  
study of cerebral cortex, 12752  
tissue monoamine oxidase inhibitions by  
convulsogenic doses of hydrazines and  
related B-hydrazones, 4181  
Cook, Charles R., printing and publishing,  
quarterly industry report, 3770  
Cook, William C., life history, etc., of beet  
leafhopper in western U.S., 5686

Cook Inlet:  
region, Alaska—  
Tertiary biostratigraphy (series), 2365  
Tertiary plants, 2365  
Cooke, Julian P.  
behavioral changes in rats at ground level  
following gestation and growth in 100%  
oxygen at reduced pressures, 15899  
heart rate response of anesthetized and  
unanesthetized dogs to noise and near-  
vacuum decompression, 4180  
rapid decompression and exposure of fresh  
foods, 1735  
some cardiovascular responses in anesthe-  
tized dogs during repeated decompres-  
sions in near-vacuum, 78  
Cooke, Marian I., distribution of Pennsyl-  
vania anthracite, 5102  
Cookery, publications, price list, 17132  
*see also* Recipes.  
Cooking appliances, current industrial re-  
ports, 3169, 5863  
Coolants:  
factors influencing heat transfer to liquid-  
propellant rocket-thrust-chamber cool-  
ant channels, 1484  
nuclear power engineering installations,  
USSR study, 1260  
*see also* names of coolants.  
Cooldown characteristics of regenerative  
nozzle used in full-scale, cold-flow, nuclear  
rocket test facility, 11500  
Coolies, *see* Chinese—Japanese.  
Cooling:  
combustion chamber struts can be effec-  
tively transpiration cooled, 6805  
effect of subcooling on film-boiling heat  
transfer from flat plate, 14453  
gaseous-film cooling of rocket motor, 6882  
regeneratively cooled hydrogen-fluorine  
rocket engine, heat-transfer study at  
low chamber pressure, 17006  
transient, of opaque sphere in space, theo-  
retical solution of nonlinear problem,  
14458  
*see also* names of commodities.  
Coombs, Charles A. Treasury and Federal  
reserve foreign exchange operations, 8005,  
16599  
Cooper, Anna G., carbon monoxide, bibliog-  
raphy, with abstracts, 1589  
Cooper, Dale W., measurement of ion and  
electron densities of electron-bombard-  
ment ion-thruster beam, 5244  
Cooper, David, nobody wanted school desegre-  
gation, Moore County, N.C., did it in  
quiet sensible way, 15213  
Cooper, G. Arthur, Permian rock units in  
Glass Mountains, west Texas, 1113  
Cooper, Gleun A., wood brick tile for panel-  
ing, 14133  
Cooper, James D., clays, 2534  
Cooper, Paul A., vibration and buckling of  
prestressed shells of revolution, 6878  
Cooper Union Museum, treasures, exhibition  
catalogue, 12990  
Cooperation, *see* International cooperation.  
Cooperative Extension Service, general in-  
formation, 17328  
Cooperative extension services in District of  
Columbia, 16387  
Cooperative housing, *see* Housing.  
Cooperative research monograph series,  
2186  
Cooperative State Research Service, appro-  
priations, 1968, hearings, 10629, 12397  
Cooperatives:  
agriculture, 1954-64, selected references,  
1517  
books on, general reading list, 12977

# INDEX 1967

Cooperatives—Continued  
 cooperative ventures in urban America, 14187  
 development under foreign assistance act of 1961, report, 13700  
 fishery cooperatives in United States, list, 14058  
 food chains, bibliography, 10077  
 over-all objective of helping people to live better (remarks), 1696  
 retail and wholesale, census of business, 1963, retail trade, 5817  
 role in developing countries, ILO recommendation text, 13554  
 self-help technique of cooperation (remarks), 1694  
 status today and tomorrow, 2232  
 see also Farmers' cooperative organizations—also kinds of cooperatives—also names of commodities.

Coordinates:  
 Brendel's, use in numerical theory of satellites, 11545  
 curvilinear coordinate systems, application of computers to formulation of problems, 9906  
 modifications in Brouwer's theory of general perturbations in rectangular coordinates, 2703  
 point, on photograph, laser measuring system accurately locates, 5154  
 Coordinating Research Council (CRC) aviation handbook, fuel and fuel systems, 11624  
 Coordinator's scoreboard, review of what's new in placement of handicapped, 8990

Coots:  
 hunting, possession, etc., Federal regulations, 1080, 16623  
 in Alaska, 14061

Copeland, W. Latham:  
 contribution of downstream stator to interaction noise of single-stage axial-flow compressor, 9882  
 noise measurement evaluations of various take-off/climbout profiles of 4-engine turbojet transport airplane, 2699

Copepoda:  
 bathypelagic calanoid, of western Indian Ocean, 8548  
 Caliginae genera key, 15607  
 caligid, parasitic on sharks of Indian Ocean, 6958  
 Caritus, new genus of caligid copepod, 15607  
 cyclopoid, associated with—  
 aleyonarian coral *Tubipora musica* (Linnaeus) in Madagascar, 6959  
 Madagascar corals *Psammocora contigua* (Esper), 6965  
 family Pandaridae (Copepoda: Caligoida), revision, 5314  
 genus *Gloiopotes* and new species, host, specificity, etc., 11607  
 parasitic on teleost fishes of Hawaiian Islands, 11603  
 taxonomy, distribution, and polymorphism in Labidocera jollae group with remarks on evolution within group (Copepoda: Calanoida), 8544  
 see also Crustaceans—Eurytemora.

Coplin, John E., relief, 13585, 13787, 14904  
 Copolymers, see Polymers and polymerization.

Copper:  
 acrylic enamel serves as lubricant for cold drawing of refractory metals, 5140  
 alloys—  
 failure under microimpact action, rules governing, USSR study, 12714  
 ultrasonics effects on electrodeposition from cyanide electrolytes, 9787  
 artifacts, neutron activation analysis traces to geographical point of origin, 8388

Copper—Continued  
 braze bonds, correlation established between heat transfer and ultrasonic transmission properties, 8389  
 compounds, electron paramagnetic resonance and magnetic susceptibility with dicarboxylic acids, USSR study, 14252  
 copper and alloys, corrosion in tropical environments, 8993  
 copper and copper base alloy mill products, tolerances, Federal standard, 2268, 16601  
 deposit, Ore Knob, N.C., 15310  
 friction of copper-aluminum alloys, possible relation with stacking-fault energy, 8490  
 friction studies, recrystallization and preferred orientation in single-crystal and polycrystalline copper, 8481  
 high-strength braze joints between copper and steel, 14420  
 hose, flexible, protected by plastic tubing, 6755  
 industry—  
 mineral industry survey, monthly, 3149  
 quarterly report, 3150  
 report, annual statistical supplement, 12027  
 mill and foundry products, current industrial reports, 3170  
 ores, domestic reserves and potential sources, evaluation, 8340  
 scrap, consumers, mineral industry survey, monthly, 3151  
 stress-rupture and creep properties of tungsten-fiber-reinforced copper composites, 17002  
 tungsten fiber-reinforced copper composites form high strength electrical conductors, 2678  
 Copper mosses as indicators of metal concentrations, 4886  
 Copper River and Valley, basin area, earthquake of Mar. 27, 1964, effects, 2371  
 Copper sulfate, mineral industry survey, monthly, 3152  
 Copple, R. F., vegetative key to some common Arizona range grasses, 11141

Copying processes:  
 equipment, GSA handbook, 12595  
 office copying processes and equipment, military standardization handbook, 9371

Copyright:  
 catalog of copyright entries, 967-969, 2141, 10880, 12432-435, 13904, 16451-452, 17682-685  
 code of Federal regulations, 9477  
 law, revision—  
 hearings, 1645-46, 16421, 17660  
 reports, 7683, 9107  
 subcommittee work, reports, 9285, 13789

Copyright Office:  
 circulars, 13905  
 general information, 13905  
 Register of Copyrights, annual report, 13903

Corals:  
 new cyclopoid copepods associated with aleyonarian coral *Tubipora musica* (Linnaeus) in Madagascar, 6959  
 Otter Creek coral bed and its fauna, east-central Kentucky, 6394  
*Psammocora contigua* (Esper), in Madagascar, associated with cyclopoid copepods, 6965  
 Corbett, Cora L. F., relief, 7632  
 Corbett, Edward S., soil slippage increased by brush conversion, 11120  
 CORD, commissioned officer residency deferment program, 8626  
 Cordaro, Joseph T.:  
 comparison of acetate differential agar with Sellers citrate-mannitol-agar, 10233  
 study of man in oxygen-helium atmosphere, enteric microbial flora, 79

Cordwood, *see* Wood.  
 Core drilling on continental margin off Florida (series), 15311  
 Cores (reactors), *see* Reactors (atomic).  
 Corigliano, Francesco, relief, 10551  
 Corliss, Charles H., revision of NBS tables of spectral-line intensities below 2450 Å, 14514  
 Corn:  
     bacterial wilt and Stewarts leaf-blight, control, 5626  
     futures, commitments of traders, 3112  
     futures trading and open contracts, 3368  
     growing, 1693  
     insect damage in 3 southeastern States at harvest time and in farm storage, 14751  
     marketing by Commodity Credit Corporation, impact on small business, report, 668  
     production, 1682  
     protecting from blackbirds, methods, etc., 16637  
     shelled, evaluation of malathion, synergized pyrethrum, and diatomaceous earth as protectants against insects in small bins, 36  
     sweet, earworm control, 14747  
     trading in futures, 16112  
     *see also* Hominy grits.  
 Corn borers, *see* European corn borer.  
 Corn earworms, *see* Bollworm.  
 Corn grits, *see* Grits.  
 Corn meal, *see* Meal.  
 Cornea, frog, monomethylhydrazine toxicity, 10242  
 Cornfield, Wash., hydrology of area, 6412  
 Cornog, D. Y., legibility of alphanumeric characters and other symbols, 6917  
 Corona (solar), *see* Sun.  
 Coronagraphs, Kislovodsk main astronomical observatory, largest coronagraph installed, 15351  
 Corouary circulation in normal and pathologic heart, 11999  
 Coronary diseases, *see* Heart diseases.  
 Coronary drug project, 15678  
 Coroners, handbook on death and fetal death registration, 15695  
 Corozal quadrangle, Puerto Rico, Cretaceous and Tertiary rocks, 1112  
 Corp. Ernest L., flexible liners for underground support, 5128  
 Corporas, Miguel A. Martinez y, *see* Martinez y Corporas, Miguel A.  
 Corporation for Public Broadcasting, *see* Public Broadcasting Corporation.  
 Corporation for Public Television, *see* Public Television Corporation.  
 Corporations:  
     banking and financing foreign operations under Federal reserve act, regulations, 9495  
     corporate equity ownership of securities under securities exchange act of 1934, full disclosure—  
         hearings, 13846  
         report, 15133  
     corporate reorganization releases, SEC, 3153  
     District of Columbia income and franchise tax act, amend, reports, 879, 893  
     doing foreign banking or financing that maintain reserve accounts with Federal reserve banks, list, 6305  
     income tax returns, statistics, 6461, 15337  
     foreign tax credit claimed, 11224  
     industrial, U.S., 500 largest, 1954-65, concentration and divisional reporting, etc., Fortune directory, hearings, 12415  
     lenders from jurisdictions outside D.C. making loans secured by D.C. property, clarify status under income and franchise tax act, report, 879  
     manufacturing, quarterly financial report, 3794

Corporations—Continued  
     monetary policy, financial liquidity, and outlook for corporate profits (remarks), 11056  
     pension funds, issues raised by 1965 report of President's Committee (remarks), 10123  
     sales, profits, and dividends, quarterly report, 3847  
     tax policy developments in corporate area (remarks), 7215  
 Corrals, beef cattle, farm building plan, 4125  
 Correctional institutions, *see* Reformatories.  
 Correctional officers, Federal Prison Service, examination announcement, 7541  
 Correctional rehabilitation, *see* Rehabilitation of criminals.  
 Corrective action, *see* Discipline.  
 Corrective therapists, Veterans Administration, hospitals and clinics, nationwide, career opportunities, 15816  
 Corregidor-Bataan Memorial Commission:  
     annual report, 4468  
     termination date, extend—  
         hearing, 9155  
         reports, 9131, 10742  
 Correlation (statistics):  
     free-surface instability, open-channel flow, 4892  
     friction coefficients for laminar and turbulent flow with ratios of surface to bulk temperature, 17014  
 Correlation function measurement and infrared frequency devices, new patents, USSR, 9647  
 Correspondence, aids, CA series, 10157, 17301  
 Correspondence schools and courses:  
     Industrial College of Armed Forces—  
         management in Department of Defense, information booklet, 9607  
     national security management, information booklet, 2422, 7863  
     program of studies, 9606  
     Navy, training manuals and correspondence courses, lists, 11657, 14585  
     USSR, correspondence and evening higher educational institutions, prospects, 1164  
 Corrosion and anticorrosives:  
     aluminum alloys, treatment increases stress-corrosion resistance, 6760  
     beryllium fluoride film protects beryllium against corrosion, 8459  
     corrosion and wear, bibliography, 2621  
     corrosion in hot sea water in experimental loop apparatus, 15326  
     corrosion of aluminum in water, 17938  
     corrosion resistance of stainless steel and nickel alloys, 9797  
     corrosion test program, 9594  
     degreasing of titanium to minimize stress corrosion, 11476  
     electron optical survey of iron oxide films produced in H<sub>2</sub>O, LiOH and LiOH/EDTA solutions, 8594  
     kinetics of thermogalvanic corrosion, USSR study, 1241  
     liquid -metals, AEC - NASA information meeting, 125  
     magnesium-lithium alloys, coating protects against corrosion, 11477  
     metallic, trace levels determined by emission spectrography, 6850  
     metals in tropical environments, 9993  
     positive displacement cylinder measures corrosive liquid volume, 6756  
     steel, corrosion resistant, controlled ferrite content improves weldability, 8475  
     stress-corrosion cracking of Ti-6Al-4V alloy in methanol, 6900  
     stress corrosion cracks in titanium alloys revealed by chemical milling solution, 16957  
     titanium alloys, salt water stress-corrosion cracking characteristics, 17091

# INDEX 1967

- Corrosion and anticorrosives—Continued  
titanium tanks, glass bead shot peening  
retards stress corrosion failure, 14413  
variable reluctance switch avoids contact  
corrosion and contact bounce, 11466  
zirconium alloys with small amounts of  
iron and copper or nickel show im-  
proved corrosion resistance in super-  
heated steam, 9796
- Corrosion engineers, problems in training.  
Hungarian study, 12710
- Corsets, current industrial reports, 14825
- Corso, Anthony J., relief, 9261, 13564, 14894
- Cortisol, see Hydrocortisone.
- Cortright, Edgar M., remarks, Mar. 14, 1967,  
8514
- Cosine law in kinetic theory of gases, 9928
- Cosmetics:  
food, drug, and cosmetic act—  
as amended, text, 1083  
enforcement and compliance, FDA re-  
port, monthly, 3268  
requirements guide for foreign manu-  
factures, etc., 17790  
import detentions, report, 3820
- Cosmetologists, see Beauty operators.
- Cosmonauts, what should cosmonauts  
breathe? USSR study, 5019
- Cosmos satellites in near-earth orbits, USSR,  
5017
- Cost, Noel D., pulpwood prices in southeast,  
2319
- Cost:  
actual versus allocated costs, computer/  
PERT technique monitors, 8458  
analysis project in children's institutions,  
7231  
benefit-cost analysis, transportation sys-  
tem, 1525  
commercial cotton farms, costs and re-  
turns, 986  
data requirements in award of contracts  
and subcontracts, Defense Dept., GAO  
report, 4867  
farm cost situation, 994  
farm costs and returns, 986, 13943,  
16488-490  
commercial dairy farms, northeast and  
midwest, 16488  
commercial egg-producing farms, New  
Jersey, 16489  
commercial tobacco farms, Coastal  
Plain, North Carolina, 13943  
commercial tobacco-livestock farms,  
Bluegrass area and Pennyroyal area,  
Ky.-Tenn., 16490  
indirect, establishing rates for HEW re-  
search grants, etc., guide for educa-  
tional institutions, 8189, 12620  
information from contractors, procedures  
for reporting, 9929  
reduction actions by defense contractors,  
4670  
reduction journal, Defense Dept., 3154  
reduction report, Defense Dept., 3154  
reductions, Veterans Administration, 5587  
see also subjects.
- Cost accounting, see Accounts and account-  
ing.
- Cost and standard of living:  
city worker's family budget for moderate  
living standard, 17894  
cost-of-living adjustments in Lighthouse  
Service annuities, report, 12253  
farm operator level-of-living indexes for  
counties of United States, 13250  
living costs abroad, Department of State  
indexes, 5084  
patterns of living and housing of middle-  
aged and older people, research con-  
ference proceedings, 14634  
rural people in American economy, 983
- Costa Rica:  
background notes, 15754  
economy, basic data, 7578  
mineral industry, minerals yearbook chap-  
ter, 14331
- Costa Rica—Continued  
records of Dept. of State, microcopy,  
pamphlet to accompany, political rela-  
tions with U.S., 18066
- Costumers, wood, executive office, Federal  
standard, cancellation, 6309
- Cote, Joseph, or heirs, relief, 610
- Cotroneo, Anthony P., characterizations of  
real linear algebras, 6898
- Cotton:  
Australia, recent developments, 2286  
boll, fiber, and spinning properties, as af-  
fected by management practices, 11945  
Brazilian, trends and prospects, 9525  
broad woven goods, current industrial re-  
ports, 3170  
cloth, prices of cloth, raw cotton, and  
mill margins, etc., 3562  
commercial cotton farms, 1965, costs and  
returns, 986  
cotton and related data statistics, 1925-  
62, 1966 supplement, 53  
cotton situation, 3161  
different grades and staple lengths from  
same load of cotton, 10192  
extra-long staple, global import quota,  
amend law—  
hearings, 15012  
reports, 13683, 13687  
fiber and processing test results, 3155  
fiber problems and policies in U.S., 15666  
fiber quality, effects on efficiency of grid-  
bar air wash lint cleaners, 14759  
fibers, fibrosampler and digital fibrograph  
for sampling, and measuring length  
characteristics, evaluation, 8834  
foreign agriculture circulars, 3345  
futures trading and open contracts, 3366  
ginning to preserve fiber quality, 16568  
imports of manufactures, foreign trade re-  
ports, 3352  
inventory management by Commodity  
Credit Corporation, GAO follow-up re-  
view, 15297  
Kirgiz, child labor in fields, deplorable,  
USSR study, 1172  
man-made fiber staple, and linters, current  
industrial reports, 3169  
mill margins report—  
expanded series, 3561  
20-construction series, 3562  
monthly cotton linters review, 3571  
price statistics, monthly, 3159  
prices, spot quotations, 3892  
production, monthly release, 3160  
production, 1966 crop, 12040  
quality report for ginnings, 3997  
quality survey, fiber and processing tests  
from selected production areas, sum-  
mary, 7266  
research plots, quick change sacking at-  
tachment for harvesting, 13198  
San Joaquin Valley, Calif., spinning per-  
formances, comparison with varying  
fiber properties, 1964-65 season, 15860  
situations, actions taken to strengthen under  
USDA programs (address), 24  
spinning quality as affected by gin clean-  
ing, etc., Mississippi, 1965-66 season,  
5647  
squares, efficiency of flail-type machine in  
destroying, 7242  
storage, hearings, 10626  
storage costs, hearing, 16301  
story, 15858  
stripper for harvesting research plots, 3  
textiles—  
depth of cut in tariff rates, 6th round  
GATT trade negotiations, 13354  
international trade, protocol with other  
governments, extending long-term ar-  
rangements, 15796  
trade agreement with—  
China, Republic of, 2890  
Hong Kong, 2920

- Cotton—Continued  
 textiles—continued  
 trade agreement with—continued  
 India, 8730, 8741, 13150  
 Israel, 11855  
 Korea, Republic of, 7183  
 Malta, 15785  
 Mexico, 15777  
 Pakistan, 11834, 15797  
 Poland, 11866  
 Portugal, 1639, 8739, 15766  
 Singapore, 2934  
 Spain, 7162  
 Turkey, 15786
- upland—  
 allotment program, statistical summary, 8820  
 cost of producing in United States, supplement, 16485  
 1967 program, general explanation, 7291
- USSR production, report of U.S. technical study group, addendum, 13245  
 varieties planted, 13885, 16444  
 varieties planted in early producing section of Texas, 12430  
 variety tests, regional, results, 4084  
 weekly cotton market review, 4056  
*see also* names of manufactured articles and materials.
- Cotton, International Institute, *see* International Institute for Cotton.
- Cotton gins and ginning:  
 consolidated cotton report, 3156  
 cotton ginnings by counties, 3157  
 cotton ginnings by States, 3158  
 engineering and economic aspects of cotton gin operations, Midsouth, west Texas, Far West, 12452  
 gin trash collection efficiency of small-diameter cyclones, 15824  
 ginning to preserve fiber quality, 16568  
 pink bollworm kill, method of evaluating, 10147  
 quality report for ginnings, 3997  
 waste, marketing and utilization, 9390  
 wastes, control and disposal, symposium, 7063
- Cottonseed:  
 and products, transportation factors in marketing, 16546  
 quality, 1966 crop, 13886  
 U.S. industry adjusting to short 1966 crop, 989
- Cottonseed oil, futures trading and open contracts, 3366
- Cottonwood:  
 and willow, stored, relation of visual estimates of decay to specific gravity loss, 2299  
 responses of 1-year-old cottonwood to increasing soil moisture tension, 14122
- Cottrell, Wm. B., nuclear safety, quarterly technical progress review, 3645
- Couch, Lana M., heat-transfer measurements on flat plate with attached protuberances, 5232
- Coulombs, interaction, theory, 11567
- Coulter, Olivia W., aging, 2995, 14732
- Council of Economic Advisers:  
 act establishing, text, 10492  
 member, nomination of Arthur M. Okun, hearing, 7801  
 report—  
 departmental edition, 5406  
 document edition, 4486
- Counseling:  
 and vocational guidance services for New York City women, 5599  
 Army recruiting and career counseling journal, 3812  
 bibliography, Air Force Academy Library, 5689  
 girls and women, awareness, analysis, action, 13968  
 girls, their special needs for expanding opportunities, 11909
- Counseling—Continued  
 interest check list, instructions for administering and using, 16516  
 national defense education act of 1958, institutes, programs, 6189  
 progress interview, helps for management in counseling people about their work, 6373  
 psychologist, examination announcement, 12113  
 publications of State Departments of Education, guide, 6185  
 report of President's Commission on Status of Women and report of Committee on Education, excerpts, 7236  
 State Dept. of Education personnel directory, 6178  
 T.I.D.E. [Testing, Information, Discussing and Evaluating], promising demonstration project, 7923  
 work fields, counselor's interviewing guides in individual appraisal and counsellee appraisal patterns, handbook, 7922
- Counselors:  
 desk aid, 18 basic vocational directions, summary information, 13963  
 development in American Society, Government-university relations in professional preparation and employment, conference recommendations, 2482  
 employment, interviewing guides in individual appraisal patterns related to fields of work, handbook, 7922  
 inventory of counselor education programs, 16504  
 recognizing and supervising troubled employees, guide for supervisors, etc., 14871  
 rehabilitation, medicine and medical practice, survey, instructor's manual, 10128  
 T.I.D.E. [Testing, Information, Discussing and Evaluating], diary, 1966 summer, 7923
- Counter guerrilla operations, 8881
- Counters, digital frequency counter permits readout without disturbing counting process, 6818  
*see also* Electronic counters—Proportional counters.
- Counties:  
 agricultural committee system, extend benefits to employees—  
 bearings, 10870, 17609  
 report, 13807  
 county business patterns, bound volumes—  
 Alabama-Illinois, 17425  
 Indiana-Missouri, 17426  
 Montana-Oregon, 17427  
 Pennsylvania-Wyoming, 17428  
 U.S. summary, 17424  
 county business patterns, CBP series, 168-  
 175, 1859-71, 4306-21, 5851, 7475,  
 10344-351, 12042-65, 13365-385,  
 14819-824, 15987, 17424-428  
 announcement and order form, 5852  
 county business patterns, U.S. summary, 7475, 13987  
 county veteran population, Dec. 1966, estimates by States, 17283  
 data book, 1967—  
 departmental edition, 12041  
 document edition, 12201  
 farm operator level-of-living indexes, 13250  
 health insurance enrollment under social security, 10083  
 land ownership maps, 19th century, in L.C., checklist, 16837  
 mental hospitals, patient movement, etc., 15697  
 rural, comprehensive plans for improving, 7265  
*see also* subject involved.
- Counting devices, reactor control systems, based on counting techniques, instrumentation program, 7422



# INDEX 1967

Countries, *see* Foreign countries.

Country life:

- alleviating conditions of rural poverty, gains and prospects, 5674
- poverty in rural America (statement), 7296

rural America, effect of Federal programs, hearings, 17583

Country team, illustrated profile of our American missions abroad, 8711

Couns, Charles, encouraging American handicrafts, what role in economic development?, 2160

Couplings:

- fluid coupling assembly, quick attach and release, self-aligning, self-sealing, 6789
- propellant-feed-system, effect on analysis of chugging, 11491
- rotational fluid, eliminates hose entanglements, 6754

yaw, turning maneuvers of large transport aircraft, simulator and flight study, 11494

Courier station design, 13301

Couriers, *see* Diplomatic couriers.

Courses of study, *see* Curriculum.

Court of Claims:

- cases, calendar, 3162

cases decided—

June 1965, including index to v. 160—171, 970

July 1–Sept. 30, 1965, 2142

Oct. 1–Dec. 31, 1965, 4663

Jan. 1–Mar. 31, 1966, 4664

Apr. 1–May 31, 1966, 7840

June 1–Sept. 30, 1966, 12436

Oct. 1–Dec. 31, 1966, 16453

Jan. 1–Feb. 28, 1967, 17686

judgments rendered, 4573

*see also* names of claimants.

Court of Customs and Patent Appeals:

- appeals in patent and trademark cases, amend U.S. Code, report, 877

cases adjudged, weekly report, 3977

customs bulletin, weekly, 3174

customs cases adjudged, 10881

patent cases adjudged, 12437

Court of General Sessions, D.C.:

- authority to waive certain provisions rel. to marriage license issuance—

law, 13533

reports, 12384, 13641

criminal justice in metropolitan court, processing of serious criminal cases, 1348

lena established by judgment or decree, recordation by recorder of deeds—

law, 1771

reports, 2026, 2102

Court of Military Appeals:

- court martial reports, holdings and decisions, 4671

digest, annotated and digested opinions, 9369

report, 7844

Courtesy (military), *see* Military ceremonies, honors, and salutes.

Courtesy (naval), *see* Naval ceremonies, honors, and salutes.

Courtesy examiners handbook, 5947

Courts, task force report, President's Commission on Law Enforcement and Administration of Justice, 10032

*see also* State courts—Venue—*also* names of courts.

Courts martial and courts of inquiry:

- instructions guide, Air Force manual, 10220

Judge Advocates General boards of review and Court of Military Appeals reports, holding and decisions, 4671

manual, 1951, addendum, changes, 973, 9361

Courts of Appeals, *see* Circuit Courts of Appeals.

Courts of United States:

- appropriation, 1967, law, 501

appropriations, 1968—

hearings, 10632, 16390

reports, 10616, 16372

crisis in Federal courts, administration of justice, hearings, 16422

Federal judges, judicial fitness, removal, retirement, and disciplining procedures, hearing, 7819

Federal judicial system, investigation—

authorization and expenses, reports, 6070, 15098

report, 9287

jurisdiction and work, 10662

narcotic addicts, dealing more effectively with individuals—

hearings, 2128

law, 497

report, 2013

*see also* District Courts.

Cows:

- milk cow numbers, 15806

milk cows on farms, production per cow, etc., 5683

milk, forage fed 1966–67 winter season, 11880

milking, time and travel required, effect of layout, equipment, and routine, 4151

milk production, 7199

roughage fed, 1966 summer season, 2940

*see also* Dairy herd improvement associations.

Cox, E. R., geology and hydrology between Lake McMillan and Carlsbad Springs, Eddy County, N. Mex., 8178

Cox, J. E., preparation of CrFe alloys, 5364

Coyne, Walter A.:

- presidential scholars, 4717

presidential scholars, what shapes their talent?, 12468

Coyner, Mary S., agriculture and trade of Panama, 7887

CPSR, *see* Government contracts.

Crab meat, radiation-pasteurization processes, 13348

Crabs, *see* King crabs—Portunids.

Crack propagation theories, 17939

Cracking of metals, *see* Fracture of metals.

Cracks in glass electrical connector headers removed by dry blasting with fine abrasive, 12886

Craft, Charles E., effects of ionizing radiation on concentration of amino compounds in rat plasma, 5714

Craft (nautical):

- pleasure craft, safety suggestions, etc., 220

small, Federal item identification guides for supply cataloging, supplements, 3293

Crafts, Edward C., remarks, Jan. 28, 1967, 4914

Crafts, *see* Arts and crafts.

Crafts, protective and custodial employees, *see* Government officials and employees.

Crambe, culture, new industrial oilseed crop, 4140

Crambidne, *see* Moths.

Cramer, Stephen D., electrodeposition of thick coatings of platinum and palladium on refractory metals, 16861

Cranberries, production, use, value, 1965–66, by States, 14696

Crandell, Dwight R., volcanic hazards at Mount Rainier, Wash., 9562

Crane, Theodore, farm index, 3262

Crane (birds):

- hunting, possession, etc., Federal regulations, 1080, 16623

in Alaska, 14061

whooping cranes of Aransas National Wildlife Refuge, general information, 8043



- Cranes, derricks, etc. :  
 bridge crane, telescoping hoist, square tubing reduces cost, 17920  
 self-actuating grapple automatically engages and releases loads from overhead cranes, 5150  
 swing-out rail system separates overhead crane rails, 6704
- Cranium, *see* Skull.
- Crashes, *see* Aircraft accidents.
- Craters :  
 apparent crater studies—  
     Project Palanquin, 4237  
     Project Pre-Schooner, final report, 13342  
 cratering in low-density targets, 11420  
 Creede caldera, San Juan Mountains, Colo., 8166  
 geologic and engineering properties, Project Pre-Schooner, final report, 17394  
 hypervelocity impact, in aluminum, projectile size effects, 14468  
 measurements, 4236  
 micrometeorite, in metal substrates, observation utilizing electron micrographic replica methods, 9815  
 nuclear engineering properties, Plowshare program, 17398
- Craters of the Moon National Monument, general information, 9957
- Craven, Harold L., transportation proceedings, 7407
- Crawfish :  
 crayfishes and their epizootic ostracod and branchiobdellid associates of Mountain Lake, Va., region, 15604  
 new crayfish from Alabama caves, etc., 17050  
     *see also* Cambarus.
- Crawford, H. S., establishing grass range in southwest Missouri Ozarks, 14092
- Crayfish, *see* Crawfish.
- Cream, fluid milk and cream report, 3339
- Creasey, S. C., general geology of Mammoth quadrangle, Pinal County, Ariz., 11163
- Creatine, urinalysis, automated technique determines concentration by colorimetry, 14437
- Creatinine :  
 urinalysis, automated technique determines concentration by colorimetry, 14437
- urinary excretion as index of fat-free mass composition in rats, 7415
- Creative federalism :  
 article, 2377  
 hearings, 4639, 13864
- Creative quest in science, 16763
- Creativity, elementary and secondary education act, PACE, projects to advance creativity in education, supplementary services and centers, etc., 2189, 7915, 10940-941, 17723
- Credit :  
 and monetary developments, 16594  
 businessmen, moderation today means progress tomorrow (address), 144  
 consumer credit and bankruptcy, garulshments (remarks), 16796  
 consumer credit protection act, hearings, 17394  
 department store, monthly report, 3200  
 Federal programs, report, 6090  
 Federal reserve banks, amend law as to security acceptable—  
     hearing, 7800  
     report, 9282  
 Federal reserve policy and credit markets (remarks), 1061  
 flows, interest rates versus interest ceilings in allocation (remarks), 4786  
 foreign, information sources, 15340  
 housing, code of Federal regulations, 11037  
 mortgage, to meet housing needs, Federal policies, hearings, 15151
- Credit—Continued  
 mortgages, study, housing, real estate, etc., statements and recommendations by Federal agencies, 10821  
 sales finance companies, monthly report, 3846  
 truth in lending act—  
     hearings, 10822  
     report, 13812  
     *see also* Banks and banking—Installment credit—Production credit associations.
- Credit insurance, health, accident, and life, for student loans, increase maximum amount allowable for student loans in D.C., report, 862
- Credit unions :  
 how it helps us, hl, I'm Mr. Money Wise, 14649  
 project moneywise, role in war on poverty, 9451  
 serve community (remarks), 11701  
 State-chartered, 2243  
 State-chartered, purchase of shares by Federal employees through payroll allotment, hearing 13845  
     *see also* Federal credit unions.
- Creditors :  
 committee functions and expenses under bankruptcy act, amend—  
     hearing, 16420  
     report, 9093
- Creek and the city, urban pressures on natural stream, Rock Creek and metropolitan Washington, 4913
- Creek Indians :  
 Nation of Oklahoma—  
     estates of intestate members, etc., disposition—  
         law, 16132  
         reports, 10578, 15114  
     judgment funds, disposition—  
         law, 16132  
         reports, 10578, 15114
- Creep of materials, adhesives, uniaxial creep, measurement in free film form, 12570
- Creep of metals :  
 niobium creep-rupture properties, nitrogen effect, 10000  
 tantalum alloys resist creep deformation at elevated temperatures, 6748  
 tungsten-fiber-reinforced copper composites, 17002
- Creep of snow and ice, research report, 7380
- Cremation, public crematorium in District of Columbia, establishment, amend act, report, 16379
- Crespo, Luis, relief, 357, 585, 810
- Cressey, Roger F. :  
 caligoid copepods parasitic on sharks of Indian Ocean, 6958  
 Carlus, new genus of caligoid copepod, with key to genera of Caliginae, 15607  
 genus Glolopotes and new species with notes on host specificity, etc., 11607  
 revision of family Pandaridae (Copepoda : Caligoida), 5314
- Cretaceous period :  
 ammonites from Matanuska Formation, 8170  
 late, Enos Creek detachment thrust fault, geology, 2360  
 rocks, east-central San Juan Basin, N. Mex., stratigraphic and regional tectonic implications, 16693  
 rocks in Corozal quadrangle, Puerto Rico, 1112  
 stratigraphy in west-central Puerto Rico, 17820  
 upper, gastropods from Pierre shale at Red Bird, Wyo., 8161
- Crew leaders, social security information, 15741
- Crews, *see* Spaceship crews—Submarine crews.

# INDEX 1967

## Crime and criminals:

- challenge of crime in free society, report by President's Commission of Law Enforcement and Administration of Justice, 7044
- combating crime in U.S., national debate topic for high schools, 1967-68, selected excerpts, etc., 10698
- controlling crime through more effective law enforcement, hearings, 15166
- crime and delinquency abstracts (periodical), 3163
- crime and its impact, assessment, President's Commission on Law Enforcement and Administration of Justice, 13065
- crime and lawlessness within United States, investigation—
  - authorization, report, 15083
  - interim report on riots, etc., 16375
- crime control conference proceedings, 16788
- crime prevention and you, 11219
- criminal justice in metropolitan court, processing of cases, 1348
- detection and investigation of attempted criminal violations of tax laws, 16721
- District of Columbia crime and criminal procedure bill—
  - hearings, 10644
  - report, 13646
- District of Columbia, victimization and attitudes toward law enforcement, 13058
- District of Columbia, war on crime with more restrictive and rehabilitative legislation, message from the President, 7599
- Federal crime insurance, contributions of science and technology, 16437
- Federal effort against organized crime hearings, 13706
- Federal interrogation act of 1967, hearings, 12306
- Federal offenders in U.S. district courts, 8799
- impact of crime on small business—
  - hearings, 12428
  - report, 16365
  - SBA to conduct study—
    - law, 17549
    - reports, 14961, 14982, 16261
- Indians, crime committed in Indian country, amend U.S. Code, law, 421
- juvenile delinquency and youth crime, task force report, President's Commission on Law Enforcement and Administration of Justice, 11703
- laws, compilation, 1982
- major metropolitan areas, crime and law enforcement studies, 13060
- organized crime, annotations and consultants' papers, task force report, President's Commission on Law Enforcement and Administration of Justice, 10033
- persons under supervision of Federal probation system, 15821
- prevention of crime, recommendations for measures to be taken, message from the President, 5998
- publications, list, 2802
- reentry of offender into community, 8791
- return of fugitive ballees, hearing, 6117
- safe streets and crime control act of 1967, hearings, 12306
- science & criminal justice symposium, 11699
- science and technology and criminal justice, task force report, 11704
- solving crime by geometry, USSR study, 1238
- uniform crime reports, 14015
- uniform reporting, quarterly release, 3992
- victimization in U.S., field surveys, 13059
- see also Conspiracies—Criminal law.
- Crime Control, National Conference, see National Conference on Crime Control.

- Crime in District of Columbia, President's Commission on, see President's Commission on Crime in District of Columbia.
- Crime Protection Insurance Corporation, Small Business, see Small Business Crime Protection Insurance Corporation.
- Criminal investigators, Food and Drug Administration, career opportunities, 11095
- Criminal jurisdiction:
  - status of forces—
    - agreement with Republic of Korea, 8726
    - agreements, compilation, 7743
- Criminal law:
  - criminal justice in metropolitan court, 1348
  - District of Columbia laws, amend, hearings, 10644
  - investigation and study, authorization, report, 4602
  - law enforcement and criminal justice assistance act of 1967, reports, 13670, 13685
  - obstruction of criminal investigations, prohibit, amend U.S. Code—
    - hearings, 12306
    - reports, 12376, 16259, 16280
  - refusal to testify, compelling of testimony and granting immunity in certain crimes, amend U.S. Code—
    - hearings, 12306
    - report, 12377
  - science & criminal justice symposium, 11699
  - science and technology and criminal justice, task force report, 11704
  - study, report of subcommittee work, 9284
- Criminal Laws, National Commission on Reform of, see National Commission of Reform of Federal Criminal Laws.
- Criminal procedure:
  - appeal by U.S. from decisions sustaining motions for return of seized property or to suppress evidence, amend U.S. Code and D.C. Code, report, 14990
  - appellate review of sentences, provide, report, 12394
  - District of Columbia crime and criminal procedure bill—
    - hearings, 10644
    - report, 13646
  - Federal interrogation act of 1967, hearings, 12306
  - investigation and study—
    - authorization, report, 4602
    - report of subcommittee work, 9284
  - see also Habeas corpus—Searches and seizures.
- Crimson clover, growing, 5639
- Crinoids, monograph, 14528
- Cripple Creek, distribution of gold, tellurium, silver, and mercury in mining district, 9571
- Cripples, crippled children's program, 1964 statistical highlights, 12094
- Crisp, Robert C., relief, 830, 10705, 16125, 16169
- Criteria for evaluation in planning State and local programs, 16411
- Critical materials, see Strategic materials.
- Critical phenomena, 1521
- Critical point, single-point failures in critical system designs, program computes, 11437
- Critiques, Asimov article on life in 1990 in Literaturnaya gazeta, 12729
- Crittenden, A. L., Carlson-Crittenden device for collection of human parotid fluid, further modification, 10240
- Crittenden, Max D., jr., mineral resources of High Uintas primitive area, Utah, 12598
- Crivella, Bart J., salad dressing, mayonnaise and related products, 145-146
- Crocco, L., mixing parameter analytical method used for laminar separations, investigation, 9806

Crockett, Davy, 5-cent commemorative postage stamp (poster), 14606  
 Croft, M. W., thorium fuels for heavy water organic cooled reactor, 5764  
 Crom, Richard J., simulated interregional models of livestock-meat economy, 12453  
 Crook, William H., nomination, hearing, 10864  
 Crooked Creek:  
   and tributaries at and in vicinity of Harrison, Ark., engineer report—  
     departmental edition, 10955  
     document edition, 10700  
 Crooks, Donald M., poison ivy, poison oak and poison sumac, identification, precautions, eradication, 10164  
 Croom, Delwin R., low-subsonic wind-tunnel and free-flight drop-test investigation of paraglider configuration having large tapered leading edges and keel, 1475  
 Crop insurance, *see* Agricultural insurance—Hall Insurance.  
 Crop lands, *see* Land.  
 Crops:  
   census of agriculture, 1964, 5903-4, 7499-7510, 8962-65, 10388-398, 12091-92, 13404-412, 14837-839, 16036-40, 17442  
   certifying your program acres, ACSC administration, 7293  
   crop production (periodical), 3164  
   Federal reclamation projects, 1966, report, 17179  
   statistical appendix, 17180  
   field—  
     acreage, yield, production, price, value, by States, 1959-64 revised estimates, 4148  
     seeds, supply and disappearance, 1960-64 U.S. average, 1964-66 annual acreage, etc., 8755  
     zinc deficiency in West, 5640  
   field and seed, production, farm use, etc., by States, 10205, 11877  
   foreign crops and markets (periodical), 3344  
   insecticides, guide, 10162  
   new, publications list, Northern Utilization Research and Development Division, 13199  
   new varieties, 2244  
   pesticide residues, cleanup and confirmation of identity, 13200  
   planting, prospective, 8753  
   seed crops—  
     acreage, yield, production, etc., 4149, 8753  
     forecast, 3859  
     prices, 3860  
     stocks report, 3861  
     values, season average prices, value of production, 8754  
   weather and crop bulletin (periodical), 4060  
   *see also* names of crops.  
 Crosby, John K., feasibility study of explosive gun, 8410  
 Crosby, Robert L., intermediate phases in magnesium-cerium system between magnesium and Mg.Ce. 1414  
 Cross, Alexander D., relief, 10534, 13521, 13759  
 Cross Creeks National Wildlife Refuge, birds, list, 8029  
 Cross-Florida Barge Canal, Silver Springs lock, rename R. N. Bert Dosh Lock, report, 885  
 Cross modulation in Scamp signal processor, 9990  
 Cross reference index to manual of Navy officer classifications, 7014  
 Cross section:  
   differential cross sections for (d,a) reaction on scandium 45, 16989  
   electron impact excitation, molecular hydrogen, estimation, 11546  
   electron scattering and bremsstrahlung cross-section measurements, 9811

Cross section—Continued  
   Gryzinski and Born, comparison for metastable 2 state of atomic hydrogen, 9874  
   low energy electron collision data, bibliography, 8521  
 Cross Village, Mich.:  
   harbor, engineer report—  
     departmental edition, 1023  
     document edition, 523  
 Crossett, Ark., periodic cubic growth in natural loblolly stands, 2324  
 Crossett Experimental Forest, farm forestry forties, 1966 harvest, 8098  
 Crotalaria, seed morphology, anatomy, and identification, 17334  
 Crouse, James E., blade-element performance of 2-stage axial-flow pump with tandem-row inlet stage, 11513  
 Crow Village, Alaska:  
   ethnoarcheology—  
     departmental edition, 8872  
     document edition, 9048  
 Crowder, Dwight F., mineral resources of Devil Canyon-Bear Canyon primitive area, Calif., 8155  
 Croxton, Ralph J., detection and classification of ash dieback on large-scale color aerial photographs, 8116  
 CREEL, *see* Cold Regions Research and Engineering Laboratory.  
 CRREL, reports, 14791  
 CRS, *see* Community Relations Service.  
 CRT, *see* Cathode ray tubes.  
 Crucibles, cast from beryllium oxide and refractory cement, impervious to flux and metal, 5152  
 Crude oil, *see* Petroleum.  
 Cruelty to children, *see* Children.  
 Cruik, R. W., estimating potential evapotranspiration from climatological data, etc., 17831  
 Cruises:  
   operators, require to file evidence of financial security, etc.—  
     hearings, 744  
     law, 481  
   safe ocean passenger travel in U.S. (remarks), 6258  
 Crumlish, Joseph D., state-of-the-art of benefit-cost analysis as related to transportation system, 1525  
 Crustaceans:  
   crayfishes and their epizoitic ostracod and branchiobdellid associates of Mountain Lake, Va., region, 15604  
   decapod crustaceans from St. Helena Island, South Atlantic, 6945  
   entocytherid ostracods, new genus, etc., 5305  
   Gonodactylus Bethold, demanil section, new species, 14541  
   Hemicytheridae and Trachyleberididae (Ostracoda) off northeastern North America, classification and distribution, 8174  
   Hemisquilla ensigera, comparison of Australasian and American specimens, 6955  
   Manningia, notes on genus and description of new species, 6968  
   myodocopid ostracod—  
     Euphiomedes astrostrata, from Maldiv Islands, 6954  
     families Philomedidae and Pseudophilomedidae, 6963  
     from Great Bahama Bank, 8543  
     from Red Sea, 5315  
     Sarsiella species, 6971  
   ostracods, new genus and 3 new species, with key to genus Dactylocythere, 6966  
   parasitic copepod Sphaeronellopsis monothrix and its myodocopid ostracod host Parasterope pollex, 15605  
   review of genus Odontodactylus, etc., 14535  
   *see also* Amphipods—Copepods.

- Cruz, Oscar Valdes-, *see* Valdes-Cruz, Oscar.
- Cruz-Munoz, Federico de la, relief, 13516, 13611, 13764
- Cruzin, tumorotropism of trypanosoma cruzi as basis for biotherapy of cancer, USSR study, 6548
- Cry, George W., tropical cyclone rainfall effects on distribution of precipitation over Eastern and Southern U.S., 15230
- Cryogenics:
- cooling reduces high voltage arcing between electrodes operating in vacuum, 5146
  - crack growth on flat and curved surfaces at cryogenic temperatures, continuity gage measurement, 2721
  - electromechanical instrument continuously measures density of flowing fluids, 9844
  - fatigue data developed for Inconel 718, 8472
  - fluid, pressure effect of sound wave, 12940
  - fluid, quick attach and release coupling assembly, self-aligning, self-sealing, 6789
  - fluid sampling device permits testing under hazardous conditions, 6814
  - gases, temperatures, fast response thermocouple measurement, study, 6820
  - hydrogen flowing turbulently in straight and curved tubes at high heat fluxes, heat transfer, 6713
  - infrared reflectances of metals at cryogenic temperatures, 6922
  - insulation, inexpensive replacement for vacuum jacketed line, 16877
  - jacketed piping, stress-relieved, 15553
  - liquid experiments in orbit, 5164
  - liquid level controllers, automatic, safe for use near combustible substances, 1466
  - liquid, reclamation system, 18007
  - liquids, experiments in orbit settling and interface dynamics, 2608
  - nickel alloys for use at cryogenic temperatures, excellent spring properties developed, 17930
  - refrigeration system—
    - improved, 12885
    - Joule-Thomson process, errata, 12989  - seal remains leaktight during thermal displacement, 12837
  - single-engine Claude cycle as 4.2°K refrigerator, 14517
  - stainless steel for cryogenic service, stabilizing components, 17987
  - techniques for stripping Teflon insulated wire, 8471
  - temperature, vacuum applications, feed-thru flange useful, 6778
  - temperatures, crack growth measured on flat and curved surfaces, 17992
  - weldable high strength aluminum alloy for cryogenic service, 6776
- Cryostats, liquid helium level, maintaining with simple pump, 8465
- Crystal chemistry, *see* Chemistry.
- Crystal lattices, finite lattice heat capacity effects on spin-lattice relaxation, 14516
- Crystal Mountain mining district, composition of pegmatites, 1111
- Crystallization, amorphous boron powder recovery and purification of boron from residues and scrap, 12017
- Crystallography:
- crystallization of natural rubber (lecture), 9935
  - dislocation structures in slightly strained tungsten and alloys, 14486
  - neutron diffractometer allows both magnetic and crystallographic analyses, 12835
  - x-ray structural analysis of globular proteins, USSR study, 12726
- Crystals:
- crystal microbalance measures condensable molecular fluxes, 6744
- Ice—
- growth rates, studies, 6447
  - hexagonal and cubic, at low temperatures, study, 17375
  - nucleation and growth, 6442
  - quartz, detect gas contaminants during vacuum chamber evacuation, 14416
  - rhenium, single-crystal and polycrystalline, friction characteristics in vacuum, 9912
  - semiconductor, thin film process forms effective contacts on, 11471
  - silicon carbide, process facilitates photoresist mask alignment, 11473
  - silicon, high-purity single-crystal, proton bombardment, 11534
  - zinc sulfide, cobalt-doped, bleaching effect under influence of ruby laser pulses, 9926
  - see also* Liquid crystals.
- Ctenostomata, *see* Victorella.
- Cuba:
- political prisoners and their relatives, hearings, 957
  - refugee movement to United States, agreement, 2903
  - translations, 3953
- Cubans:
- correspondents report on North Vietnam, 15410
  - refugees—
    - assistance, appropriations, 1967, law, 405
    - assistance, appropriations, 1968, hearings, 15014
    - status, adjustment—
      - law, 445
      - reports, 662, 706, 909
- Cubas, Fidel Rodriguez-, *see* Rodriguez-Cubas, Fidel.
- Cubison, Robert W., effect of canards in reducing launch vehicle flight loads, 14496
- Cucchiara, Orlando, development of krypton-85 as universal tracer, 13335
- Cucumbers, pickleworm control, 4116
- Cucurbits, pickleworm control, 4116
- Cuing techniques, training tasks, phase 3, 15635
- Culex, *see* Mosquitoes.
- Culicidae, *see* Mosquitoes.
- Cullen, Joseph P., battles of Fredricksburg, etc., where hundred thousand fell, 1533
- Cullen, William C., thermal-shock resistance for built-up membranes, 15584
- Culligan, Glendy, high school and cultural illiterate, 7899
- Cullom, Richard R., solidification in thermal-energy storage systems with axisymmetric heat-transfer solutions, 5246
- Culture:
- changing patterns of work and leisure, 5042
  - Chinese cultural revolution as seen by Alberto Moravia, 16736
  - cultural relations, agreement with—
    - Morocco, 10102
    - Rumania, 11869
    - Union of Soviet Socialist Republics, 7182  - early cultures in south coastal Guatemala, 9954
  - educational and cultural diplomacy, 7150
  - exchange, international, 4080-81
  - future international meetings, world list, 4074
  - high school and cultural illiterate, 7899
  - influences on children, research programs, studies in progress, 8967
  - international exchange of persons program, 14678
  - international information and cultural series, 7150, 14678, 17226

**Culture—Continued**

Mandan culture history, interpretation—departmental edition, 11973  
document edition, 12193  
Mao's cultural revolution, review by USSR's Literary gazette, 12760  
materials, importation agreement—implement—  
    bearing, 951  
    law, 371  
    reports, 653, 655, 903  
    text, 5549  
presentations, USA, report, 17226  
visual and auditory materials of cultural character, circulation, agreement and protocol, 5546  
youth, its values and beliefs, 7232  
Culvert pipe, *see* Pipe and pipe fittings.  
Culverts, corrugated metal pipe, structural design, criteria and recommended installation practices, 2843  
Cumberland Plateau, Upper Cumberland Coal Reserve District, land disturbances from strip-mining, 8077  
Cummings, William H., forestry research progress, 1966, McIntire-Stennis cooperative forestry research program, 13902  
Cummins, Joseph M., feasibility of mass, outdoor cultivation of *Gonyaulax catenella*, 15684  
Cunningham, Herbert J., flatter analysis of flat rectangular panels, 6910  
Cunningham, T. J., jr., Army digest, 3042  
Cunnington, George R., jr., performance of multilayer insulation systems for temperatures to 700°K, 17943  
Cupola-furnaces, how to inspect chart, 9689  
Cups, Cecil Q., reservoir oil characteristics, Cut Bank field, Mont., 8376  
Cure for Chagas disease discovered, Brazil, 11243  
Cureanti storage unit, 11770  
Curle, Marie S., centenary, symposium celebration (remarks), 17404  
Curran, E. M., Air Force Medical Service Digest, 3994  
Curran, Arthur N., heat-transfer study of regeneratively cooled hydrogen-fluorine rocket engine, 17006  
Currencies, *see* Money.  
Currency, *see* Money.  
Current application of cybernetics in USSR, 12730  
Current discharge at selected stations in Pacific Northwest, 3907  
Current economic analysis, CEA-series, 3341, 3874  
Current export bulletin, 3167  
Current Federal workforce data, 1919, 10421  
Current fishery statistics, C.F.S. series, 1074-75, 3024, 3073, 3335-36, 3338, 3363, 3378, 3530, 3533, 3545, 3546, 3553, 3564, 3621, 3628, 3638, 3836, 3876, 3884, 3940, 4038, 8013-18, 9502-13, 11072-74, 12540-544, 14054, 16610-618, 17769-771  
Current housing reports, 3168  
Current industrial reports, 3169-70, 3540, 4322-47, 5853-76, 7478-82, 8938-48, 10352-359, 12067-83, 13386-397, 14825-830, 15990-16007, 17429-437  
announcements and order form, 4325, 8948  
Current meters:  
    Isotopic water current meters, DWICA's-13328  
    performance, laboratory determination, 4729  
    Price current meters, description, etc., 9951  
Current population reports, 3171  
Current retail trade reports, 3172, 17439  
Current selected services report, 7490  
Currents, *see* Air—Electric currents—Lake currents—Ocean currents.  
Curriculum:  
    adult basic education, beginning local guide, 4708

**Curriculum—Continued**

beginning Russian 2, USAFI study guide, 974  
closed circuit TV maintenance course, class C, 7015  
Coast Guard Academy, catalogue of courses, 14879  
course and curriculum improvement projects, mathematics, science, engineering, 5324  
high school and cultural illiterate, 7899  
labor courses, Civil Defense Office references, 14845  
management course presentations, 13115  
National Center for Air Pollution Control, July 1967-June 1968, bulletin of courses, 18153  
National Center for Radiological Health training and manpower development program, 13085  
research abroad, overseas projects in education, 1014  
university, in marine sciences, 17752  
vocational and technical education programs determining courses of study, 1017  
Curry, Rembert L., testing aggregate, 6215  
Curth, Ernest A., relative pressure changes in coal pillars during extraction, 12829  
Curtis, H. Allen, generalized decomposition theory of finite sequential machines, 18008  
Curtis, Lindsay R., alcohol, fun or folly?, 18104  
Curtis, Robert O.:  
    comparison of site curves for Douglas-fir, 2309  
    formula for Douglas-fir total cubic-foot volume table, 1092  
Curtiss, H. C., jr., Princeton dynamic model track, 7409  
Curvature (mathematics):  
    pressure distribution curves applicable to pneumatic tires, experimental study, 11401  
Cushman, Bernard, remarks, Oct. 10, 1967, 18088  
Cusick, Leo J., remarks, Apr. 17, 1967, 9583  
Cusimano, John P., paper, Aug. 26-27, 1967, 17392  
Custer County, S. Dak., Hot Springs quadrangle, geology, 12597  
Customs, *see* Tariff.  
Customs Bureau:  
    appropriations, 1968, decrease, proposal, 10695  
    duty free sales of certain waste produced from imported conditionally duty-free carpet wool, GAO review, 12591  
Customs Court:  
    cases adjudged—  
        Customs Court reports, 972, 9359, 16454  
        in Treasury decisions, weekly report, 3977  
    customs bulletin, weekly, 3174  
Customs districts:  
    by continent, airborne foreign trade, summary reports, 3995  
    code classification used in compiling U.S. foreign trade statistics, schedule D, 4359, 8926  
    exports of merchandise, summary reports, 4005  
    imports of merchandise, summary reports, 4006  
Cut Bank field, Mont., reservoir oil characteristics, 8376  
Cutbert, F. P., jr., insects affecting sweet-potatoes, 15837  
Cutter, Doris, workshop for Baptists on deafness and rehabilitation, 2968  
Cutting of metals, *see* Metal cutting.  
Cutting tools:  
    metal, current industrial reports, 12075  
    metal, industry, 1961-66, shipments, 15934  
Cuttings, *see* Reproduction.  
Cuyahoga County, Ohio, children in need, federally assisted aid program to families, study, 4386

CW, *see* Radio communication.  
 Cynnogan, CN violet radiation behind shock waves in air contaminated with carbon-bearing compounds, analysis models, 9905  
**Cybernetics:**  
 and control theory, USSR studies, 5021, 15367  
 application in system of control sciences, USSR study, 9660  
 Communist Chinese abstracts, 3117  
 cybernation and social change, seminar, 6596  
 East European abstracts, 3219  
 economic, for solving problems, Rumanian studies, 1309  
 economy and industry, USSR study, 6537  
 in service of Communism, information theory, computer technology, and semiotics, 12742  
 machine thinking, USSR study, 2456  
 mathematical problems, and computer engineering, USSR study, 16784  
 medical, introduction, 14503  
 military science, scientific and philosophical application, USSR study, 1197  
 problems, USSR study, 1318  
 psychology of sets and cybernetics, 8264  
 pursuit urged, USSR study, 1225  
 recent developments in USSR, 8259  
 research at AtlantNIRO, 1202  
 role of Bulgarian scientists, 1159  
 strategic importance, USSR study, 17875  
 technical, problems of control of Soviet science, 2427  
 testing student's knowledge, 8864  
**USSR—**  
 abstracts, 4027  
 current applications, 12730  
 discussion by academiclean A. L. Berg, 4975  
 organization of interdisciplinary studies, 15349  
 publications on applied problems in technical cybernetics described, 14262  
 research, 6499  
 self-organizing control systems, 9617  
 translations, 14272  
 utilization in clinical oncology, USSR study, 6553  
**Cybernetics (USSR periodical):**  
 translations, 3176  
**Cycling**, thermal and bias cycling stabilizes planar silicon devices, 12902  
**Cyclohexane**, 1,4 cyclohexanediol (methylamine), regenerative carbon dioxide absorbent, 8589  
**Cyclones**, tropical rainfall, effects on distribution of precipitation over eastern and southern United States, 15230  
**Cyclopoidae**, *see* Copepods.  
**Cyclotrons**, ion wave generation in uniform and nonuniform plasma and electron inertia effects, 12962  
**Cylinder pressmen**, *see* Pressmen.  
**Cylinders:**  
 aerodynamic characteristics for cone-cylinders-frustum-cylinder configurations, 9804  
 axially compressed eccentrically stiffened, plastic buckling, 5249  
 corrugated, large diameter, with eccentric ring stiffeners, bending tests, 1506  
 flat-front family, effects of Reynolds number and flow incidence on flow characteristics, 9903  
 hemisphere, effect of roughness on heat transfer at Mach number 10.4 and 11.4, 8492  
 hollow elastic, bonded to thin casing of different material, vibrations, 18048  
 hollow, transient radiation and conduction, 17941  
 large-diameter ring-stiffened, subjected to hydrostatic pressure, test, 1479

**Cylinders—Continued**  
 metal, mechanism facilitates coating inner surfaces, 8478  
 nonconcentric rotating, superlaminar flow between, 12852  
 open-ended circular cylindrical microwave cavities, errata, 11485  
 positive displacement, measures corrosive liquid volume, 6756  
 radiation through plasma sheath, 5176  
 ring-stiffened corrugated, structural efficiency in axial compression, 14470  
 sandwich, thermoelastic and viscoelastic cylindrical sandwich shells, equations, 1436  
 single-source mechanical loading system produces biaxial stresses, 17990  
 thin-walled—  
     circular, nonlinear flexural vibrations, 14482  
     radial displacements, 17947  
     thermal bending plus twist, of open section, with application to gravity gradient booms, 15561  
**Cylindroleberidae**, *see* Crustaceans.  
**Cynthiana, Ky.**, meteorite, composition, 18089  
**Cyphocaris challengerii**, *see* Amphipods.  
**Cyprus:**  
 background notes, 11816  
 capsule facts for Armed Forces, 15912  
 mineral industry, minerals yearbook chapter, 6648  
**Cystic fibrosis**, *see* Fibrosis.  
**Cystic lymphadenopathy**, *see* Lymphadenopathy.  
**Cytochemistry:**  
 neuron differentiation in different parts of rabbit brain, USSR study, 14221  
 ultrastructures, USSR, 12697  
**Cytogenesis**, somatic, problems, USSR study, 12684  
**Cytology:**  
 diagnosis, differential, of precancer and cancer of cervix uteri using fluorescence and phase-contrast microscopy, USSR study, 12700  
 exfoliative, using for early detection of oral cancer, training course summary, 18161  
 morphology of brain tumor cells using anoptical microscope, USSR study, 12739  
 photodiffusion in nerve and muscle cells under effect of local and irradiating excitation, USSR study, 14259  
 study of effects of deuterium, environment, 16881  
**Cytospectrophotometric research on DNA content in tumor cells of human brain**, 12757  
**Czechoslovakia:**  
 capsule facts for Armed Forces, 15918  
 computer technology, state, 15409  
 drugs, psychopharmacologic and psychotomimetic, research, 16774  
 entomological research, main centers and principal achievements, 2472  
 geobotology, 16761  
 mineral industry, minerals yearbook chapter, 2551  
 Ministry of Health directives on control of pharmaceuticals, 12685  
 scientific research and development base in Slovakia, 17876  
 study mission report, 7809  
 subject index of legal regulations published during 1966 in Sbirka Zakonu CSSR, 15423  
 U.S.S.R. boundary, study, 17225



## D

- D.C. Transit System, Inc., franchise act, amend rel. to mass transit subsidy, hearing, 12293
- D.H.I.A., see Dairy herd improvement associations.
- D.S.A., see Defense Supply Agency.
- Daane, J. Dewey :  
 remarks—  
 Oct. 24, 1966, 1067  
 Jan. 31, 1967, 4784  
 Sept. 11, 1967, 16598
- Dactylocythere, see Crustaceans.
- Dahms, Walter G., low stand density speeds lodgepole pine tree growth, 11117
- Dahomey :  
 labor conditions, 1372  
 Peace Corps volunteers, agreement, 17237
- Daily food guide, 7837, 9333
- Daines, Jay V., fabrication techniques for fiber glass reinforced primary aircraft structures, 4222
- Dairy cattle, see Cattle.
- Dairy farms, see Dairying.
- Dairy herd improvement associations :  
 DHIA cow performance index list, registered progeny of DHIA sires, 8807  
 national cooperative program, 3188  
 dairy herd improvement, records, 4104  
 sire summary list, 7245, 17299
- Dairy industry, see Dairying.
- Dairy plants, see Dairying.
- Dairy products :  
 annual statistical summary, 7200  
 farm-retail price spreads, 10181  
 how to use USDA grades in buying, 5671  
 import act of 1967, hearings, 10801  
 manufactured products, 1966 production, 14699  
 marketing, 4697  
 purchases and utilizations of dairy products under price support program, 1965-66 marketing year, 21  
 see also names of products.
- Dairying :  
 commercial dairy farms, northeast and midwest, costs and returns, 16488  
 dairy-herd-improvement letter, national cooperative improvement program, 3188  
 dairy herd improvement through national cooperative improvement program, 4104  
 dairy manufacturing firms in Minnesota, utilization of plant capacity, 12454  
 dairy market statistics, 1966, annual summary, 7298  
 dairy marketing economics, research publications, bibliography, 13950  
 dairy plants surveyed and approved for USDA grading service, list, 6131, 13887  
 dairy situation (periodical), 3189  
 foreign agriculture circulars, 3345  
 indemnity payments to dairy farmers, extend—  
 law, 16140  
 reports, 14981, 15088  
 1966 pasture season, 1643  
 publications, price list, 2800
- Dakan, Norman E., intelligence, supp. 1, PACAF basic bibliographies, 7338
- Dale, John M., preparation of low density sulfur foam, 17379
- Dale, R. H., ground-water geology and hydrology of Kern River alluvial-fan area, Calif., 1116
- Dales, Sophie R., benefits and beneficiaries under public employee retirement systems, 11798
- Dallas, Tex., area wage survey, 6611
- The Dalles, Oreg., artificial recharge through well tapping basalt aquifers, 16700
- The Dalles Dam, fish passage report, 13974
- Dalrymple, Dana G., controlled atmosphere storage of fruit, 7959
- Dalrymple, Glenn V. :  
 biological effects of space proton environment, 4176  
 protons and space travel, 1731
- Dalrymple, Tate, measurement of peak discharge by slope-area method, 11185
- Dalton, Leonard J., relief, 285, 842
- Dalton, Patricia, source arrangement for low-exposure-rate total-body irradiation facility for man, 13338
- Daly, Angela R. :  
 census of manufacturers, 1963—  
 area statistics, 7462  
 expenditures for new plant and new equipment, 7455  
 summary and subject statistics, 7460  
 value of manufacturers' inventories, 7454  
 census of mineral industries, 1963—  
 employment and related activities, 7469  
 fuels, electric energy, and selected supplies used, 7470  
 general summary, 7466  
 power equipment in mineral industries, 7471  
 size of establishments, 7467  
 type of organization, 7468  
 water use in mineral industries, 5848
- Damadian, Raymond, abnormal phosphorus metabolism in potassium transport mutant of *Escherichia coli*, 10235
- Damazo, Elpidio D., and wife, relief, 14931
- Damn the torpedoes, 17908
- Dampers :  
 fluid state hydraulic damper, 10286  
 local, in lumped-parameter systems, method of relating to modal damping, 5228  
 reduces effects of resonance on force transducer, 5216
- Damping :  
 aerodynamic, in pitch and yaw, of Gemini configurations, errata, 1474  
 behavior of Dellavilland stem booms, 11539  
 frequency and viscous, of liquids during weightlessness, experimental investigation, 15571  
 liquid oscillations in large-scale cylindrical tanks, effectiveness of flexible and rigid ring baffles, 8493  
 modal, method of relating to local dampers in lumped-parameter systems, 5228  
 reaction jet damping and attitude control system for spinning body, simulation, 8485  
 structural composites with viscoelastic shear-damping mechanisms, 6728  
 structural joint, effect of model scale, experimental investigation, 18025  
 structural response, analysis with different forms, 14450
- Dams :  
 arch, preliminary design, guide, 5479  
 construction begun in Kazakhstan, 12670  
 construction near Alma-Ata, Kazakh SSR, eyewitness report, 14244  
 measurement of peak discharge by indirect method, techniques, 9576  
 see also names of dams or bodies of water.
- Dancing, plis please, 1011
- Danger areas, Pacific Ocean, 11641
- Dangerous articles, see Hazardous substances.
- Daniel, Price, nomination, hearings, 17639
- Daniels, Raymond B., physiographic history and soils, entrenched stream systems, and gullies, Harrison County, Iowa, 1722
- Danielson, V. A., iron and steel scrap in southeast, 12797
- Danisch, John A., relief, 13584
- Dansby, William L., employee earnings and hours in—  
 metropolitan areas of the South, 5071  
 nonmetropolitan areas of South and North Central regions, 15447



# INDEX 1967

- Danville, Ill., Danville Junior College, land conveyance to, 4496
- DAPAC, danger areas in Pacific, 11641
- Dark adaptation, recovery, effect of wavelength and bandwidth of red light on, 14318
- Darling, John M., wave record program at CERC, 10951
- Darrow, George M.:  
strawberry culture, south Atlantic and Gulf Coast regions, 1685  
strawberry varieties in United States, 17309
- Darters (fishes):  
type specimens (Places, Percidae, Etheostomatini), catalog, 6951
- Data, see subjects.
- Data access descriptions, 8955, 16028
- Data-collection forms and procedures for census and related surveys, 16041
- Data compression:  
first-order polynomial predictor for data compression, 8491  
with error-control coding for space telemetry, 11558
- Data compression processors, see Processors.
- Data management, 5702
- Data processing, see Electronic data processing systems.
- Data recorders, see Recording instruments.
- Data storage and retrieval systems, see Information storage and retrieval systems.
- Datcherute, Elizabeth, or heirs, relief, 610
- Dates (fruit):  
growing in United States, 29  
production, use, value, 1965-66, by States, 14696
- Davenport, Iowa:  
area wage survey, 6606  
bridge across Mississippi River, reconstruction, etc., authorize construction of additional span, report, 2095  
motor carrier accident, 1153  
population, special census, 8953
- David Taylor Model Basin, report, 11682
- Davidson, Katherine H., preliminary inventory of general records of Housing and Home Finance Agency, 14507
- Davidson, Ronald C., weak turbulence in homogeneous plasma, 8906
- Davidson County, Tenn., housing and urban renewal in metropolitan area, report, 12099
- Davila, Luis Tapia, see Tapia Davila, Luis.
- Davis, Chester E., relief, 794, 9257.
- Davis, Donald R., revision of moths of subfamily Prodoxinae, 8535
- Davis, Jefferson C., partial-pressure suit, 10237
- Davis, John G., jr., compressive behavior of plates fabricated from glass filaments and epoxy resin, 9895
- Davis, L. E.:  
mineral industry of—  
California, 8646  
Nevada, 8358
- Davis, R. M., ice surface movement on Tuto ramp in north Greenland, 11983
- Davis, Robert, approach roads, Greenland, 15932
- Davis, Robert T., water supply outlook and Federal-State-private cooperative snow surveys for Washington, 4051
- Davis, Ross D.:  
addresses, etc.—  
Feb. 17, 1967, 6158  
May 27, 1967, 10904  
Aug. 8, 1967, 13934
- Davis, Theodore F., radioactive waste processing and disposal, 5786
- Davis, True:  
remarks—  
Nov. 25, 1966, 1654  
Jan. 28, 1967, 5574  
Jan. 30, 1967, 7214  
Feb. 27, 1967, 7211  
Mar. 1, 1967, 7210
- Davis, True—Continued  
remarks—continued  
May 17, 1967, 11886  
Aug. 23, 1967, 15810
- Davis-Bacon act, see Government contracts.
- Davis Strait, sailing directions, 9968
- Davison, Harry W.:  
control of nuclear reactor with gaseous control system, 14485  
digital computer program for calculating steady temperature, etc., 16987
- Dawes, Richard E., mineral industry of Illinois, 6650
- Day, James V.:  
remarks—  
Feb. 12, 1967, 6259  
Oct. 11, 1967, 16579
- Day care of children:  
children in day care, with focus on health, 7513  
day care and working mother, magnitude of problem on national scale (talk), 11908  
District of Columbia, public services, provide, report, 16383  
Federal funds for day care projects, 8792, 10140  
nursery enrollment of children under 6, 10937  
spotlight on day care, National Conference on Services, proceedings, 1894  
working women and day care needs, consultation, preliminary report, 15820
- Dayhoff, M. O., thermodynamic equilibrium in prebiological atmospheres, etc., 11426
- Days, see names of special days.
- Daytime programs for children, basic goals and common elements, 4363
- Dayton, Ohio, area wage survey, 11316
- DCA, see Defense Communications Agency.
- DCAA, see Defense Contract Audit Agency.
- DDT, effects on ecology of salmon streama in southeastern Alaska, 8040
- Deaf:  
behavioral aspects, research, conference proceedings, 2967  
captioned films for the deaf—  
catalog, 7891  
program, 10929  
law and the deaf, 17183  
model secondary school to serve National Capital region, Gallaudet College, establishment, etc.—  
law 408  
law, legislative summary, 8192  
opportunities for the hard of hearing and the deaf through vocational rehabilitation, 1662  
workshop for Baptists on deafness and rehabilitation, University of Tennessee, 2968  
see also Sign language.
- Deaf-Blind Youths and Adults, National Center for, see National Center for Deaf-Blind Youths and Adults.
- Deaf, Convention of American Instructors, see Convention of American Instructors of the Deaf.
- Deafness, see Deaf.
- Dealers:  
commercial seed and planting stock, directory, 8125  
gasoline service stations and liquefied petroleum (LP) gas, census of business, 1963, retail trade, 4270  
poultry, national improvement plan, participants, 5615  
supplement, 10150  
subject to certain sections of title 1, National housing act, list, 11010
- Dear student leaders, exchange of correspondence on Viet-Nam, 7143
- Deardorff, Donald K., hafnium-carbon phase diagram, 14340
- de Arias, Maria del C. T., see Arias, Maria del C. T. de.

- Death:**  
 Federal employees, payment of dual benefits for same death, procedures for preventing, GAO review, 12592  
 infant and perinatal mortality in—  
   Scotland, 5466  
   United States and 6 West European countries, international comparison, 8659  
 infant mortality in Norway, problems, 17167  
 life table functions estimated from sample of deaths, 8657  
 morbidity and mortality weekly report, 3585  
 mortality, vital statistics of U.S., 7099, 15717, 18190  
 records, where to write, 11765  
 registration—  
   funeral directors' handbook, 17142  
   medical examiners' and coroners' handbook, 15695  
   physicians' handbook, 13088
- Death certificates:**  
 description of diseases frequently reported, training unit for nosologists, 8656  
 how to obtain, compilation, 10701  
 print as Senate document, report, 10782
- Death of a giant, dutch elm disease still takes its toll, 15872**
- Death Valley National Monument, general information, 2754**
- de Aubri, Pelagie G. F., or heirs, relief, 610**
- Debano, Leonard F., formation of non-wettable soils involves heat transfer mechanism, 11124**
- DeBarr, Gary L., two new sucking insect pests of seed in southern pine seed orchards, 15283**
- Debates and debating:**  
 high school topic 1966-67, selected excerpts and references, 2002  
 high school topic 1967-68, selected excerpts and references, 10698
- Debentures:**  
 Federal intermediate credit banks, delete interest rate limitation—  
   hearing, 707  
   report, 633
- Debits, see Banks and banking.**
- Debt:**  
 debt pooling, State laws prohibiting or regulating, 5048  
   summary, 16811  
 farm mortgage, 2175  
 home mortgages, estimated, quarterly, 3244  
 management, orchestration, initiative and innovation in central banking (remarks), 9493  
 provable, dischargeability and nondischargeability, authorize bankruptcy courts to determine, hearing, 16420  
 refunding of indebtedness due, agreement with Greece, 8735  
 reserve for certain guaranteed debt obligations, income tax deduction, law, 435  
   *see also* Public debt.
- Debtors, accounts, effort to collect or otherwise settle, Farmers Home Administration, GAO review, 4879**  
*see also* Creditors.
- de Burgh, Juanita C., relief, 262**
- de Butts, Edward, relief, 612**
- Decaborane:**  
 inhibition of aromatic L-amino acid decarboxylase, 14775  
 mediated norepinephrine depletion reversal by methylene blue, 1730  
 toxic, alterations in tissue amines, modified by hydrazines and propynylamines, studies, 7357
- Decapoda, see Cambarus.**
- Decarboxylase, aromatic L-amino acid, inhibition by decaborane, 14775**
- DeCarlo, J. A., coke and coal chemicals, 5100**
- Decay (radioactive):**  
 influence of parent and daughter decay on tracer diffusion profiles, 14489
- Decay (timber):**  
 cottonwood and willow, stored, relation of visual estimates of decay to specific gravity loss, 2299  
 Englemaun spruce in Colorado, indicators, and associated decay, 6371  
 factors influencing decay of untreated wood, 8066  
 heartwood of native species, comparative resistance, 8065  
 wood decay in houses, how to prevent and control, 17316
- Decedent's estates:**  
 District of Columbia escheat cases, settlement by commissioners—  
   law, 12175  
   reports, 7688, 12380
- Deceleration:**  
 holst is automatically stopped at low deceleration rate, 5213  
 test vehicle, static longitudinal aerodynamic characteristics, 6897
- Decelerators:**  
 aerodynamic wakes, their structure and influence upon, 9803  
 flexible, towed tension shells, flutter characteristics, 9818  
 rigid, towed behind massive body, flutter characteristics, 9814
- Decennial review conference on cell tissue and organ culture, 18172**
- Deception, see Camouflage.**
- Deciduous fruits, see Fruit.**
- Decision-making:**  
 decisions and control of troops, theory, USSR study, 15366  
 Federal research and development programs, report, 15001  
 generating random information for experimental decision problems, 4225  
 in Federal budget, better information (remarks), 1060  
 quantitative methods for management, 11591  
 tactical, skills, generalized, research, 9982  
 taxation, key factor in business decisions, 1598  
 updated graphic vs. alpha-numeric information, 10282A
- Decision problems, see Statistical decision.**
- Decision Sciences Laboratory, final biennial progress report, 8861**
- Decisions, dynamic launch decision criteria, system automatically provides, 17974**  
*see also* names of courts, etc., rendering decisions—*also* subjects.
- Decisions from the field, 16497**
- Decker, John L., relationship of mycoplasma to rheumatoid arthritis and related diseases, 2833**
- Declaration of Independence, text, 10691**
- Decoding, command processors system, 14479**
- Decomposition:**  
 characteristics of char-forming phenolic polymer used for ablative composites, 6862  
 generalized theory of finite sequential machines, 18008  
 slash disposal, laboratory tests fail to confirm acceleration by chemical treatment, 8086  
 thermal—  
   kinetic properties of  $\text{KMnO}_4$ , result of  $\text{CO}_2$  irradiation, 11570  
   uranium oxides in vacuum, USSR study, 16743
- Decompression:**  
 hazards in small pressurized aircraft, evaluation, 17414  
 near-vacuum, heart rate response to, of anesthetized and unanesthetized dogs, 4180

## Decompression—Continued

- rapid—
  - central nervous system of dog to 1 mm. Hg, residual pathologic changes, 1743
  - foods near vacuum conditions, 1735
  - repeated, cardiovascular responses in anesthetized dogs to near-vacuum exposure, 78

Decompression sickness, *see* Aeroembolism.

## Decontamination:

- BW, with hypochlorite, application to STOP system, exploratory studies, 10012
- naval vessels, USSR study, 8248
- rigging CW-BW water pretreatment decontamination set, airdrop, Army technical manual, 10280

Decoration and ornament, starfishes, ornamental use, 6346

## Decorations of honor:

- foreign, acceptance by government officials and employees, establish basic uniform standards—
  - law, 391
  - Ramseyer rule print, 734
- Navy and Marine Corps, ribbons of decorations and awards (poster), 11663
- Order of Isabella the Catholic, award to Eugene J. Keogh, authorize acceptance, 4493

## Decoupling:

- multivariable control systems, design and synthesis, 18046
- seismic, at nuclear level, experiment, Project Dribble, Salmon event, Vela Uniform program, Tatum Salt Dome, Miss., 1808-10, 8911

DeCourcy, John, world production and trade, tallow and greases, 4817

Decouvrez un nouveau mode de gastronomie, visitez les Etats-Unis, 17275

Dedicating your new facility, 13056

Dediot, Luis G., relief, 828, 9211, 10529, 12151

Deductions, *see* Income tax.

## Deed of trust:

- appointment of new trustees in D.C.—
  - law, 420
  - report, 704

## Deer:

- browse resources of Uwharrie National Forest, 8124.
- browsing in northern hardwoods after clearcutting, effect on height, etc., 8109
- key, conservation, law, 388

Deering, R. A., molecular aspects of biological development, 6711

Defense, *see* Civilian defense—National defense.

Defense communications, *see* Military communications.

## Defense Communications Agency:

- DCA circulars, 4667-68, 9360, 16455
- DCS equipments/systems performance standardization program, circular, 9360

Defense Contract Administration Services, traffic management handbook, 10889

## Defense Contract Audit Agency:

- auditing career, 16459
- career opportunities for auditors, 9365
- organization, functions, and relationships with General Accounting Office, hearing, 15030
- reviews of contractors' price proposals, GAO report, 6385

Defense contracts, *see* Government contracts.

## Defense Department:

- air transportation provided for dependent children of personnel, GAO review, 9545
- annual report, 2149
- appropriations, 1966, supplemental, hearings, 13842

## Defense Department—Continued

- appropriations, 1967, civil functions, law, 403
- appropriations, 1967, homeowners assistance—
  - hearings, 7796, 9147
  - reports, 9277, 10564, 10572
- appropriations, 1967, law, 401
- appropriations, 1967, military procurement, report, 2014
- appropriations, 1967, supplemental—
  - hearings, 7736, 7794, 7799
  - law, 9038
  - military procurement and construction, etc.—
    - law, 9035
    - report, 6087
  - reports, 7665, 7667, 7673, 7704, 9268
- southeast Asia military operations—
  - hearings, 6031
  - law, 9035
  - proposal, 4492
  - report, 6087
- appropriations, 1968—
  - hearings, 9142, 10630, 13840, 16388
  - law, 16141
  - reports, 13633, 13678, 14987, 15096
- appropriations, 1968, civil functions, hearings, 16393
- appropriations, 1968, military construction, hearings, 15016, 16305, 17637
- appropriations, 1968, military procurement—
  - hearings, 7797, 9149
  - law, 12164
  - reports, 7786, 10570, 10575, 10611
- Assistant Secretary, nomination of—
  - Fitt, Alfred B., hearings, 17639
  - Goulding, Phil G., hearing, 9306
  - Warnke, Paul C., hearing, 15148
- bidding, etc., costs charged to government contracts, GAO review, 8143
- cataloging and standardization program, semiannual reports, 6032, 7739, 16313
- cataloging handbook, H series, 975-976, 2144-46, 3283-93, 3322-23, 3325-27, 7847, 10886, 16457, 17688
- cataloging manual M (series) 4669, 6140, 12437, 16458, 17689
- commanders digest (periodical), 3105
- commercial two-way radio equipment, savings available by purchasing rather than leasing, GAO report, 4882
- commercial warehouse service plan for general merchandise and refrigerated storage, 15182
- construction contracts, awards, need for compliance with truth-in-negotiations act of 1962, GAO report, 12588
- contractor operated messing and merchandising services at Kwajalein Missile Test Site, new procedures adopted to improve management, GAO report, 14155
- cost or pricing data requirements in award of contracts or subcontracts, GAO report, 4867
- cost reduction journal, 3154
- cost reduction program, examination, hearings, 713
- cost reduction report, 3154
- defense industry bulletin (periodical), 3193
- Deputy Secretary, nomination of Paul H. Nitze, hearing, 15148
- DoD nationwide priority referral system, improved management, 2152
- education of dependents overseas, report, 16322
- feasibility of using U.S.-owned excess foreign currencies instead of dollars to pay for ocean shipment of military assistance program materiel, GAO report, 4866
- Government's interagency motor pool system, potential savings obtainable through increased use, GAO report, 8137

## Defense Department—Continued

Granite City Defense Depot, employees relief, 779  
 handbook DSAH series, 977, 3195, 4672-75, 6141-44, 7848-52, 9367, 10887-889, 12440, 13909, 17690-691  
 handtool and paint stocks, transfer to GSA, GAO review, 9546  
 maintenance management, 17858  
 management, correspondence course offered by Industrial College of Armed Forces, information booklet, 9607  
 manual DSAM series, 978-979, 2147-48, 4676, 6145-47, 7853-54, 9368, 10890-891, 13910-915, 16460-461, 17692-693  
 manufacturers part and drawing numbering systems, 2146, 7847  
 change, 10886  
 Military Affiliate Radio System (MARS), general information, 7859  
 military construction and family housing appropriations, 1967, law, 457  
 military construction authorization, 1967, report, 623  
 military construction authorization, 1968—  
   hearings, 13695, 16395  
   law, 17555  
   reports, 13684, 13688, 16284, 16371  
 military handbook, 980, 7860, 9370-71  
 military standards, 2154, 4678, 6151, 7861-62, 9372-78, 10899, 12443-444, 13921-924, 15189-198, 16465-471, 17700  
 milk procurement, price adjustments, amend U.S. Code—  
   law, 410  
   reports, 689, 907  
 overseas household goods shipments, charges for accessorial services, GAO review, 11152  
 overseas schools, extend authority for allocation of funds—  
   hearings, 7742, 9153, 12419, 17664  
   reports, 9118, 10557  
 potential savings on volume movements of household goods from overseas to continental U.S., GAO report, 8138  
 procurement of—  
   foreign produced aircraft ejection-seat system, GAO review, 4881  
   locomotive for Thailand under military assistance program, GAO report, 6380  
   printing of technical manuals from equipment contractors, GAO report, 2345  
 procurement, personnel, etc., investigation—  
   authorization, report, 6009  
   expenses, reports, 7677, 14979  
   regulations DSAR series, 15182  
   savings attainable in use and pricing of certain nonperishable foods, GAO report, 2352  
 selling to military, general information, 2158  
 small business and labor surplus area specialists, list, 7866  
 specifications and standards, index, 13920, 15188  
   supplements, 3412  
 standardization documents, supply classification listing, 3324, 13919  
 standardization manual M (series), 3893  
 standardization policies, procedures, etc., manual, 3893  
 surplus personal property, how to buy, 10897  
 telephone service to military family housing occupants, methods used to provide, GAO review, 6383

## Defense Department—Continued

travel regulations, civilian personnel, 3456  
 United States agencies in Vietnam, audit and inspection programs, 1966, GAO review, 9553  
 use of spare Government-owned communications circuits in Europe, GAO report, 16672  
 Vietnam commercial import program, AID's management and operation, GAO review, 15302  
 your professional auditing future, Defense Dept., 4683  
 Defense disposal manual, 9368, 10890  
   changes, 6146, 7853-54  
 Defense facilities, *see* Plants (industrial).  
 Defense industry bulletin (periodical), 3193  
 Defense materials, *see* Materials—Strategic materials.  
 Defense Materials System and priorities, questions and answers, 7452  
 Defense procurement circular, 3194  
 Defense production, *see* Production.  
 Defense production act, *see* Production.  
 Defense Production Joint Committee :  
   annual report, 2036  
   committee print, 4460  
   hearings, 12185-186, 13543, 14916  
 Defense Supply Agency :  
   civilian career program for automatic data processing, 13910  
   defense supply system, savings available by eliminating low-cost, low-demand spare parts, GAO report, 17815  
   field establishment directory, 6144, 13909  
   handbook DSAH series, 977, 3195, 4672-75, 6141-44, 7848-52, 9367, 10887-889, 12446, 13909, 17690-691  
   index of publications and forms, 3195  
   introduction to, general information, 7858  
   manual DSAM series, 978-979, 2147-48, 4676, 6145-47, 7853-54, 9368, 10890-891, 13910-915, 16460-461, 17692-693  
 MILSTRIP, military standard requisitioning and issue procedures, manual, changes, 6153, 15199  
 poster, let's face it, security is up to you, 10901  
 procurement regulation, revision, 3196  
 regulations DSAR series, 15182  
 traffic management handbook, change, 6142  
 Defense systems resources in civil sector, 17371  
 Defense traffic management handbook, change, 6142  
 Defense utilization manual, 4676  
   change, 2148  
 Definitions and abbreviations, FAA, 1038, 9441, 12488, 1400  
 Definitive designs for naval shore facilities, 15619  
 Deflection :  
   Dynalect evaluation for non-destructive testing of pavements, 16524  
   shock induced, accurately measured with spiral spring/strain gage combination, 1468  
 Deformations (mechanics) :  
   deep mine stress determinations using flatjack and borehole deformation methods, 6676  
   laboratory stress-deformation characteristics of soils under static loading, 2596  
   prebuckling influence on buckling load of truncated conical shells under axial compression, 5187  
   shallow spherical sandwich shells under local loading, 6895  
   tantalum alloys resist creep deformation at elevated temperatures, 6748  
   uniform, provided by porous maddrells in hydrostatic powder metallurgy, 12916  
 Degreasing of titanium to minimize stress corrosion, 11476

- Degrees (colleges, universities, etc.) :  
 changing pecking order (address), 17716  
 degree profile and contributions of Federal  
 funds for academic science, etc., 14560  
 engineering (1964-65) and enrollments  
 (fall 1965), 13953
- Hungary—  
 doctor and candidate degrees awarded,  
 1232  
 doctors and candidates of sciences, list,  
 9632, 14218  
 master's and higher, enrollment, fall 1964,  
 final report, 2182
- DeHavilland aircraft, *see* Aircraft.
- Dehydrated foods, *see* Dried foods.
- Dehydration, *see* names of commodities.
- Dehydrogenase, lactic, substrate protection  
 against ionizing radiation, studies, 14774
- Deissler, Robert G. :  
 effects of combined buoyancy and shear on  
 weak homogeneous turbulence, 11542  
 weak locally homogeneous turbulence and  
 heat transfer with uniform normal  
 strain, 5254
- Deitschman, Glenn H., diameter growth of  
 western white pine following precom-  
 mercial thinning, 4826
- Deitz, Victor R., adsorption of carbon dioxide  
 on carbon solids, graphite and diamond at  
 0°C, 5351
- DeJarnette, Fred R., two different interpre-  
 tations of measured dissociation-rate con-  
 stants, and their effects on coupled vibra-  
 tional-dissociational flows of oxygen over  
 wedge, 12943
- De Jongh, Guillermo Fresco, *see* Fresco De  
 Jongh, Guillermo.
- Delambre, AIC 78 A, lunar chart, 7331
- Delaney, Donald J., military review, 3558
- Delaware :  
 area measurement reports, 7457  
 census of agriculture, 1964, State and  
 county statistics, 7507  
 census of manufacturers, 1963, area sta-  
 tistics, 153  
 census of mineral industries, 1963, area  
 statistics, 5829  
 climatological data, 3096  
 county business patterns, 1859, 12045  
 electric rate book, 4773  
 precipitation data, hourly, 3401  
 site index of sweetgum stands in relation  
 to soil characteristics, 4832  
 women, labor laws, summary, 8794
- Delaware River and Valley :  
 estuary, comprehensive study, summary  
 of preliminary report and findings, 2272  
 Martinsburg formation, Pa.-N.J., middle  
 and upper Ordovician, 6395
- Delaware River Basin Commission :  
 appropriations, 1967, law, 403  
 appropriations, 1968—  
 hearings, 10634, 16393  
 report, 13678
- Delay lines, inductive delay line pickup, use  
 in heterodyne phase shifter to provide  
 stepless phase shift, 16977
- Del Baglivo, Anna, relief, 12229
- Del Campo, Roberto Matrin, *see* Martin Del  
 Campo, Roberto.
- de Leeuw, Frank, revised index of manufac-  
 turing capacity, 4790
- Delevan National Wildlife Refuge, mam-  
 mals, list, 8030
- Delgado, Antonio Rondon, *see* Rondon Del-  
 gado, Antonio.
- Del Grosso, V. A., systematic errors in ultra-  
 sonic propagation parameter measure-  
 ments, pt. 3, Sound speed by iterative re-  
 flection-interferometry, 9983
- Delinquency, *see* Juvenile delinquency.
- Delinquent children, *see* Juvenile  
 delinquency.
- Deliroglu, Konstadyna B., and son, relief,  
 539
- Del Norte County, Calif., forest statistics,  
 4860
- DeLoach, D. B., collective bargaining for  
 poultry feed prices, California, 7944
- Delta County, Colo., Delta-Montrose area,  
 soil survey report, 15747
- Delta launch vehicle, *see* Spacecraft.
- Delta National Wildlife Refuge, birds, list,  
 17781
- Delta wings, *see* Wings (aircraft).
- Del Valle Dam and Reservoir, Alameda  
 County, Calif., State-constructed, planned  
 Federal contribution toward cost, Corps  
 of Engineers (civil functions), Army  
 Dept., GAO review, 6384
- DeMaine, P. A. D., solid system, numeric  
 compression, alphanumeric compression,  
 14519
- Demand, *see* Supply and demand.
- Deminalization of saline water, *see* Water.
- Deming, Frederick L. :  
 remarks—  
 Nov. 22, 1966, 2946  
 Dec. 8, 1966, 2953  
 Sept. 15, 1967, 17270  
 Oct. 19, 1967, 18241
- Democracy :  
 continuous living process (remarks),  
 15810  
 dissent and democracy (address), 12531  
 labor-management relations, 25 millionth  
 vote, milestone in industrial democracy  
 (remarks), 6939, 8532  
 scientific management and democracy, East  
 Germany, book review, 16759
- Democratic Republic of the Congo (Kin-  
 shasa), *see* Congo (Kinshasa).
- Demodulators threshold reduction tech-  
 niques study, 6716
- Demography :  
 family planning programs in developing  
 countries, 8227  
 osteoarthritis in adults, demographic char-  
 acteristics, 5468
- DeMolina, Eladio R., relief, 12335
- Demolition, *see* Wrecking.
- Demonstration projects, *see* Recreational  
 areas and demonstration projects.
- de Moya, Ena H. Mourino, *see* Mourino de  
 Moya, Ena H.
- Denardo, B. Pat., projectile size effects on hy-  
 pervelocity impact craters in aluminum,  
 14468
- Denaro, John (Giovanni) :  
 relief, 13752
- DeNauw, Lois J., foreign trade regulations  
 of Republic of Korea, 16106
- Dendrometers, dial-gage, accuracy of mean-  
 growth estimates, 8079
- de Neufville, Richard, how good are our  
 schools? Armed Forces qualification test  
 provides clue, 1005
- Denial and probation orders currently affect-  
 ing export privileges, 11227
- Denman, James E., relief, 16173
- Denmark :  
 air transport services agreement, 7153  
 background notes, 18221  
 educational system and problems, 9397  
 mineral industry, minerals yearbook chap-  
 ter, 8246  
 selling in Denmark, 233
- Denningham, R. L., transmission of light  
 through plane water surface and its return  
 by submerged retroreflector, 13031
- Densitometers :  
 electromechanical instrument continuously  
 measures density of flowing fluids, 9844  
 liquid hydrogen, utilizes open-ended micro-  
 wave cavity, 11452
- Density :  
 alpine snow covers, densification, 15933  
 atmospheric—  
 between altitudes of 180 KM and 300  
 KM, investigation, 8860

**Density—Continued**

- atmospheric—continued
- upper stratosphere and mesosphere measurements, 17012
- body composition of military population, Ft. Carson, 1963, report, 120
- core samples from wells in Appalachian oilfields, 11353
- distributions, calculating, in gas containing heat sources, digital computer program, 16987
- electron-bombardment ion-thruster beam, measurement of ion and electron densities, 5244
- electron, concept for using laser beams to measure in plasmas, 6807
- gas, light scattering measurements, 11490
- glow discharge density sensor probe life extended, 14430
- hot wire techniques in low density flows with high turbulence levels, study, 6841
- metals, measurement in extreme environments by radiation counting technique, 17922
- minerals, 17818
- phenolic nylon, effect on ablative performance, 9889
- power-spectral-density computer program, 11481
- surface water, Pacific Coast, 17466
- Density stratification, *see* Stratification.
- Denson, Norman M., some bauxite and clay deposits in northeastern Alabama, 2357
- Dental administration, Navy manual, change, 8576, 14584
- Dental assistants, examination announcement, 12104
- Dental care, *see* Dentistry.
- Dental caries, *see* Teeth.
- Dental hygienists :
  - examination announcement, 12104
  - registered, facts for counselors, 1591
- Dental instruments and apparatus, Federal item identification guides for supply cataloging, supplements, 3290
- Dental kits, emergency, for use on space missions, development of encasement, 17353
- Dental officers, *see* Dentists.
- Dental research, spectrum of dental research, National Institute of Dental Research, 18187
- Dental science :
  - collection of human parotid fluid by Carlson-Crittenden device, further modification, 10240
  - expanding world in biomedical research, 18173
  - flow rate effect on parotid fluid calcium magnesium, and protein concentrations in human, 10239
  - thermography of human dentition, 17357
- Dental supplies, Federal item identification guides for supply cataloging, supplements, 3290
- Dental technicians, examination announcement, 12104
- Dentifrices, stannous fluoride as constituent of prophylactic paste and in dentifrice, clinical evaluation, 14319
- Dentistry :
  - actuarial services for dental service corporation, 11714
  - caries increments evaluation with bite-wing roentgenograms, 14321
  - dental administration, Navy manual, change, 8576, 14584
  - dental services for American Indians and Alaska natives, annual reports, 2810, 18159
  - grant programs in dental public health, research, research training, fellowships, 8632
  - group practice facilities, financial assistance for constructing and equipping, law, 465

**Dentistry—Continued**

- group practice facilities—continued
- summary, section-by-section analysis, legislative history, and conference report, 725
- military dependents, dental care needs, hearings, 16306
- military medical benefits act of 1966—law, 365
- report, 664
- preventive, school program, feasibility study of use of stannous fluoride mouthwash, 17352
- prints relating to dentistry, 12995
- stannous fluoride as constituent of prophylactic paste, as topical solution, and in dentifrice, clinical evaluation, 14319
- student loan program, 5435
- Dentists :
  - Armed Forces dental officers, provide promotion opportunities, report, 14943
  - employed by District of Columbia, exemption from licensing requirements—law, 17560
  - reports, 10559, 16384
  - in Indian health, 8627
  - internships, Public Health Service hospitals, 15679
  - residency training under public health traineeship program, 7090
  - Veterans Administration instructions to participating dentists on fee basis, 7219
- Denton, Thomas C. :
  - mineral industry of—Kenya, Tanzania, and Uganda, 8355
  - Rhodesia (Southern Rhodesia), Zambia, and Malawi, 12806
  - South Africa, Republic of, 9760
  - regional mineral industry review of Africa, 12812
- Denver, Colo. :
  - area wage survey, 8311
- Engineering and Research Center, Reclamation Bureau, 11768
- mineral aggregate industry, impact of urbanization, 6637
- Deonig, D. E., formation of transuranium isotopes in power reactors, 124
- Department stores, *see* Stores.
- Dependent children, *see* Children.
- Dependents, *see* Air Force—Armed Forces—Army—Pay, allowances, etc.—Veterans.
- Depletion equations, *see* Equations.
- Deportation cases suspended, reports, 15075-76
- Deposition, *see* Plating—Sedimentation and deposition.
- Depository libraries, *see* Libraries.
- Deposits (solders, etc.) :
  - Armed Forces savings program, allotments for missing persons, etc., reports, 16266, 17626
  - interest lost on deposit accounts of enlisted members, adjust—law, 451
  - reports, 686, 932
- Depots, *see* Storage.
- Depreciation :
  - accelerated depreciation allowance, re-store—hearings, 7764, 7804
  - law, 12168
  - legislative history, 13719
  - message from the President, 9063
  - reports, 7711, 7713, 9271, 10614
  - accelerated depreciation allowance, suspend—hearings, 952
  - law, 504
  - law, summary, 4566
  - legislative history, 2064
  - report, 677
  - Senate amendments, summary, 4568
- depreciable property, farmers, tax deduction from gross income for assessments for soil or water conservation or drainage districts, report, 7690
- income tax information, 4916



- Depressants, *see* Hypnotics and sedatives.  
 Deprivation (sensory), *see* Sensory deprivation.  
 Depth of flash optical landing system, 13032  
 Depth perception, *see* Perception.  
 Deputy Commander, Allied Forces in Europe, headquarters, agreement with France, 7170  
 Derdul, Joseph D., liquid outflow from cylindrical tanks during weightlessness, 2720  
 Derr, V. E., propagation of millimeter and submillimeter waves, 15511  
 Derricksom, Gardner F., motor vehicle abandonment in U.S. urban areas, 7451  
 Desalination:  
   brackish water conversion demonstration plant—  
     Roswell, N. Mex., report, 16718  
     Webster, S. Dak. report, 15327  
   dedication of Clair Engle desalting plant (remarks), 15324  
   desalting for Athens, Greece, preliminary study, 10314  
   desalting of water supply in Texas, potential contribution to future supply, 15328  
   direct freeze separation process using refrigerant R-C318, 12644  
   distillation equipment in city of Shevchenko, diagram, equipment design, etc., USSR, 1270  
   electrosorption and desorption, 6445  
   foam fractionation of inorganic solutions, 12642  
   Freeport, Tex., plant, annual report, 17548  
   international symposium on water desalination, proceedings, 9587, 11214-215  
   large-scale, evaluation of liquid-liquid heat transfer, 14200  
   membranes, by reverse osmosis, study, 6448  
   multistage flash process, cost studies, 15329  
   pilot plant reverse osmosis, operation, 2395  
   plants, utilization of waste brines, feasibility study, 14196-197  
   policy considerations in desalting and energy development and utilization, 15969  
   reverse osmosis process, permeability requirements of membranes, 15331  
   sea water conversions, conceptual design of—  
     desalination plant, 2396  
     fifty million gallon per day plant, 8216  
     one million gallon per day plant, 15330  
     ultrathin reverse osmosis membranes, fabrication and evaluation, 12641  
     use of waste heat for production of fresh water, 6450  
   USSR technical publications, translations, 13313  
   *see also* Sea water.  
 Desalting of sea water, *see* Sea water.  
 Deschler, Lewis, Constitution, Jefferson's manual, and rules of House of Representatives, 7593  
 de Schmertzling, Hannibal, utilization of infrared spectrophotometry in microcontaminant studies in sealed environments, 8869  
 Descriptive cataloging, *see* Cataloging.  
 Descubra um mundo novo em culinária, visto os E.U.A., 17276  
 Desegregation in education, *see* Race problems.  
 Desert National Wildlife Range, general information, 6353  
 Deserts:  
   Central Asia—  
     formation, and nature of Sinkiang, study, 6585  
     Hohsi corridor, Tsaidam, and Tarim basin, USSR book, 16777  
   *see also* names of deserts.  
 Deshler-Morris House, general information, 6979  
 Design and development of automatic indirect blood pressure monitoring device, 73  
 Design manual DM series, 2764-66, 13016, 14565-66, 17063-66, 18095  
 cumulative index, change, 2766  
 Design procedure for weight optimization of straight finned radiators, 6781  
 Design review, *see* Reliability (mechanical).  
 Designs (aircraft):  
   crash survival design guide, 13309  
   method for optimal attitude regulator for spinning space station, 6894  
 Designs (architectural), *see* Architecture.  
 Designs (industrial):  
   analytical technique permits comparison of reliability of alternate mechanical designs, 15491  
   hardware, NASA data retrieval system provides unlimited information, 11484  
   lightweight structural design techniques for lightweight fans, 117  
   shelter design and analysis, fallout radiation shielding, 14847  
   structural design concepts, some NASA contributions, 16932  
   technology and manpower in telephone industry, 1965-75, report, 5036  
   turbine blade root design concept promises superior alignment, 6782  
 Designs (patents):  
   in official gazette, 3650  
 Desilicizing, aluminate solutions, USSR study, 9645  
 Desks, wood, flat top and typewriter, Federal standard, cancellation, 6310  
 Des Moines, Iowa, area wage survey, 11315  
 Desolation Valley, primitive area of Sierra Nevada, Calif., mineral resources, 11169  
 Desorption, desalination by electrosorption and desorption, 6445  
 Desoxyribonucleic acid:  
   DNA content in tumor cells of human brain, cytospectrophotometric research, USSR study, 12757  
   mechanisms of action of AET, protection of DNA against ionizing radiation by GED, 5713  
   sympathetic ganglion cells and acridine orange-DNA spectra, USSR study, 12702  
 Despinning, tangential yo-yo despin device on rotating body, three-dimensional analysis, 6888  
 Desserts, Army recipes, technical manual, 8886  
 DeStefano, Giuseppe, relief, 16185  
 Destruction of salmonellae, 8  
 Desulphurization, Great Salt Lake brines and sea water, preliminary studies, 6688  
 Detection and investigation of attempted criminal violations of tax law, 16721  
 Detection of entrapped moisture in honeycomb sandwich structures, 11453  
 Detectors:  
   Campbell techniques, application to reactor control systems, 7422  
   continuous wave detector has wide frequency range, 17994  
   infrared, use of twin helix system to produce fast scan, 6800  
   light source improved, photocell shadowing technique, 2674  
   measures power in 50 to 30,000 GHz radiation band, 6751  
   photoionization, improved soft X-ray, 9838  
   remote sensing systems, survey of detectors and dynamic calibration methods, 9809  
   simple mercury vapor for geochemical prospecting, 9568  
   tunnel diode low-level detection behavior, analysis, 11493  
   *see also* Phase detectors.—Proportional counters.



- Determination of regularity of automation by its canonical equations, 6581
- De Toffoli, Mercedes, relief, 12221, 17495
- Detonations:
- sympathetic, studies, 5131
  - symposium, proceedings, 13030
- Detroit, Mich.:
- area wage survey, 11319
  - Federal office building, name for Patrick V. McNamara, reports, 670, 886
- Detroit Skills Center, Detroit, Mich., good training, good jobs, 16500
- Detterman, Robert L., geology of Iuiskin-Tuxedni region, 8163
- Deul, Maurice, mine water research, neutralization, 9792
- Deurbrouck, Albert W.:
- preparation characteristics of coal from—Randolph County, W. Va., 2578
  - Upshur County, W. Va., 14358
- Deuterium:
- environment, cytology advanced by studying effects, 16881
  - thermal conductivities of ordinary and deuterated gaseous hydrogen fluoride and their equimolar mixture, 12961
- Deuterium oxide, see Heavy water.
- Deuterons:
- breakup mechanism by 42-Mev alpha particles, 18032
  - (d,  $\alpha$ ) reaction on—
    - aluminum-27, investigation, 6852
    - errata, 14448
    - fluorine 19 and nitrogen 15, interpretation, 9873
    - scandium 45, differential cross section, 16989
- Devan, Thomas A., records of Dept. of State relating to political relations between U.S. and Honduras, pamphlet, 18065
- Development, see Underdeveloped areas.
- Development (economics), see Economic development.
- Development digest (periodical), 3202
- Development Planning in Alaska, Federal Field Committee for, see Federal Field Committee for Development Planning in Alaska.
- Developmental instrument supplies accurate attitude and attitude-rate data, 6770
- Devereux, John R., relief, 854
- Deviation measuring system, FM carrier deviation measured by differential probability method, 12917
- Devices:
- accurately measures and records low gas-flow rates, 2677
  - automatic indirect blood pressure monitoring device, design, etc., 73
  - control, for automotive vehicles, Federal standard, 6317
  - device measures reaction engine thrust vector deviations, 6804
  - exploding bridge wire, pulse technique provides more accurate checkout, 2672
  - mechanical, accurately measures RF phase differences in VHF or UHF ranges, 6848
  - medical electronics, development, USSR study, 1264
  - telegraph devices, input-output for digital computer systems, USSR study, 1254
- see also types of devices.
- Devil Canyon, primitive area, mineral resources, 8155
- Devils Postpile quadrangle, Calif., Cenozoic volcanic rocks, 14170
- Devine, Brian, mean blood hematocrit of adults, 10069
- Devoe, Donald B., human processing of information in weather forecasting, 8862
- DeVoe, James R., radiochemical analysis, 2746
- Devonian period, Lower Devonian stratigraphy of northeastern Pennsylvania, New Jersey, and southeasternmost New York, 11167
- DeVore, Sablene E., relief, 12336, 16195, 17507
- DeVries, Leonard L., investigation of atmospheric density between altitudes of 180 KM and 300 KM 8860
- Dew, D. M. & Sons, Inc., relief, 16172
- Dew point, radiosonde, accuracies 40°C to -40°C, 15884
- DeWinter, F., parametric cost studies of multistage flash process, 15329
- Dexter Manor, Providence, R.I., health services, 5456
- DeYoung, Alan, relief, 777
- DHIA, see Dairy herd improvement associations.
- Diabetes:
- characteristics of persons with diabetes, 14638, 18189
  - literature index (periodical), 3203
  - cumulative edition, 14621
  - relationship to number of pregnancies, 1960-62, United States, 5469
  - treatment of diabetics at Polish health resorts, 17865
- Diagnosis, television and X-ray, USSR study, 1257
- see also names of diseases.
- Diagnostic tests of color defective vision, bibliography, 17411
- Diakides, Sevasti, relief, 13619, 13781, 14897
- Dialogue on adolescence, 4365
- Dials and pointers, Federal Item Identification guide, 17697
- Dialysis:
- electrical analogue for electrodialysis, study, 9591
  - electrodialysis, application of inorganic ion-exchange membranes, 8214
- Diameter distributions in natural yellow-poplar stands, 9544
- Diamond, Arnold H., public facility needs and financing, 1977
- Diamond, Norene M., annual digest of State and Federal labor legislation, 14281
- Diamond drilling, statistical regression analysis, drillability studies, 2584
- Diamonds:
- adsorption of carbon dioxide at 0° C, 5351
  - drill core, gold distribution from Homestake Mine, Lead, S. Dak., 6679
  - industrial, acquisition for stockpile, balance-of-payments aspects of contracts, GAO report, 15293
  - industrial, disposal from national and supplemental stockpiles—
    - law, 436
    - reports, 683 920
- Diapole antennas, see Antennas.
- Diary of T.I.D.E. Counselor, summer 1966, 7923
- Diatomaceous earth:
- evaluation, as protectant against insects in sorghum grain, in small bins, 11933
  - shelled corn protectant against insects in small bins, 36
- Diaz, Beatriz, relief, 311, 595, 816
- Diaz, Carlos M. Calonge, see Calonge-Diaz, Carlos M.
- Diaz, Jose C. Suarez, see Suarez-Diaz, Jose C.
- Diaz, Jose E., relief, 557
- Diaz Franquiz, Jose J., relief, 572
- Diaz Martinez, Eleanor R., see Diaz, Beatriz.
- Diaz Zayas Bazan, Juan R., relief, 9235, 13487 13592
- Dibble, Thomas W., jr., areal geology of Western Mojave Desert, Calif., 17824
- Dicarboxylic acids, electron paramagnetic resonance and magnetic susceptibility of Cu (II) compounds, USSR study, 14252
- DiCarlo, Daniel J., light observation and large load-lifting helicopters, 16983
- Di Carluccio, Annunziata, relief, 10546
- 2', 5-dichloro-4'-nitrosalicylanilide, see Bayer 73.

- Dichromates, common names shipping containers, etc., technical reference, 9735
- Dickinson County, Mich., Menominee iron-bearing district, geology, 6398
- Dickson, P. F., infrared reflectances of metals at cryogenic temperatures, 6922
- Dictionaries:
- Alaska place names, 14174
  - Chinese, in all languages, list, 7144
  - communications-electronics terminology, 8856
  - international agricultural trade, terms used, 9524
  - occupational titles, 3d edition—physical demands, working conditions, and training time data, supp., 6205
  - suffix codes for jobs defined, 9417
  - corrections and additions, 10946
  - Seneca Indian language, 13001
- Dicyandiamide:
- duty-free treatment—law, 10483
  - reports, 7696, 7787, 10563
- Didymium metals, electrowinning from their oxides, 11384
- Dielectric beamsplitters, *see* Beamsplitters.
- Dielectrics:
- constants and dissipation factors for 6 rock types between 20 and 100 megahertz, 9765
  - covers, effects over cross slots in rectangular waveguide, 18027
  - dielectric properties of promising materials for cryogenic capacitors, study made, 17977
  - input admittance of coaxial transmission line opening onto flat, dielectric-covered ground plane, 16993
  - resonant frequencies of sphere immersed in plasma, 12929
  - temperature dependence of constant of micamuscovite, at varying frequencies, USSR study, 16737
- Dies (metal-working):
- industry, problems, etc., hearings, 2061
- Diesel fuel, *see* Fuel oil.
- Diesel locomotives, *see* Locomotives.
- Diet:
- Alaska dietary survey, 14623
  - chemically defined, factors affecting efficiency, 17351
  - effects on—body compartments of rats, 10295
  - intestinal and skin flora—experimental data, 9799
  - literature survey, 2613
  - purified diets, response of channel catfish fingerlings, 8042
  - recipes, seafood slimmers, 8026
  - salmon, caloric and vitamin levels, studies, 8042
  - special dietary regulations of FDA, recommended allowances, etc., 6359
- Dietitians, Veterans Administration, interns, 13173
- Dietrich, Raymond A., price information and meat marketing in Texas and Oklahoma, 13941
- Dietrich, Wendell F., corrosion test program, 9594
- Differential equations, *see* Equations.
- Differential neutron thermalization, summary report, 13223
- Diffraction:
- Fresnel diffraction plates are simple and inexpensive, 16945
  - isotopic X-ray sources for portable stress analysis equipment, feasibility, 14809
  - vector diffraction theory, applications to terrain, 7935
  - X-ray, powder patterns, 15591
- Diffractionometers, neutron, allow both magnetic and crystallographic analyses, 12835
- Diffusion:
- anomalous, onset in electron-bombardment ion thruster, 2710
- Diffusion—Continued
- binary, in exponential medium, 2704
  - free-molecule flow and surface diffusion through slots and tubes, summary, 8508
  - impurities into silicon from gaseous sources, 1421
  - silver plating ensures reliable diffusion bonding of dissimilar metals, 11461
  - theory of thermionic converters, USSR study, 15390
- Diffusion equations, *see* Equations.
- Digestive system, tolbutamide influence on cholinesterase activity, Rumanian study, 1261
- Digesta, *see* Index digests—also names of departments, etc., issuing digests—also subjects.
- Digges, Thomas G., heat treatment and properties of iron and steel, 2739
- Digital adaptive control system, *see* Control systems.
- Digital computer systems operators:
- examination announcement, discontinuance notice, 14862
  - trainee, career opportunities, IRS, 6454
- Digital computers, *see* Electronic computers.
- Digital fibrograph, *see* Fibrograph.
- Digital filters:
- non-real-time data processing, 17935
  - random process theory aids digital data processing study, 16952
- Digital frequency counter permits readout without disturbing counting process, 6818
- Digital magnetic tape system for recording radar data, 17096
- Digital system detects binary code patterns containing errors, 2647
- Digital-to-analog converters:
- operation from low level inputs, 17968
  - rate augmented, design and analysis, 18036
- Digitizers:
- displacement digitizers, USSR study, 1320
  - Randle Cliff radar digital range-measuring instrument, 18114
  - see also* Analog-to-digital converters.
- Dill, Henry W., jr., worldwide use of air-photos in agriculture, 17304
- Diluzio, Frank G., remarks, Oct. 16, 1967, 16719
- Dimethyl sulfoxide, toxicity to fish, 16624
- Dimick, B. M., liquid heaters and vaporizers, classification definitions, 18122
- Dimond, Nancy, Navy Supply Corps newsletter, 3616
- Dinger, Cloyd H., computer programs in oceanography, 14570
- Dingman, Robert J., geology and groundwater resources of northern part of Salar de Atacama, Antofagasta Province, Chile, 11164
- Diodes:
- avalanche-drift diode and its use in microwave engineering, USSR study, 12750
  - computer program searches characteristic data, 2654
  - diode-lens controlled waveguide slot radiators, feasibility study, 9812
  - discriminator threshold attenuation, transistor biased amplifier minimizes, 16883
  - fused diode provides visual indication of fuse condition, 14431
  - heterodyne operation of avalanche photodiodes, 18023
  - millimeter wave, for efficient harmonic power generation, 11483
  - minority carrier storage, used by laboratory pulse modulator, 14428
  - Monte Carlo code for solution of planar electron-diode problems including electron-neutral elastic collisions, 15558
  - reliability prediction technique, 6720
  - SiC/Si diode trigger circuit provides automatic range switching for log amplifier, 17957

**Diodes—Continued**  
 tunnel diode low-level detection, 11493  
*see also* Thermionic diodes.

**Dioximes, *see* Oximes.**

**Diplomacy, educational and cultural, 7150**

**Diplomatic and consular service, *see* Diplomatic couriers.**

**Diplomatic couriers, visas, agreement with Rumania, amending agreement, 15789**

**Diplomatic list, 3208**

**Diplomatic relations, *see* International relations.**

**Diplomats:**  
 diplomatic relations act of 1967, complement Vienna convention, hearing, 10831  
 Vienna convention on diplomatic relations act of 1967, report, 12387

**Dipole moments:**  
 electric, for molecules in gas phase, selected values, 17035  
 plasma acceleration, based on dipole moment approximation, 5256

**Diptera, *see* Flies—Mosquitoes.**

**Direct current, *see* Electric currents.**

**Directional stability, *see* Stability of aircraft.**

**Directories:**  
 Aerospace Research Office key staff offices and laboratories, 7334  
 airport, airman's information manual, 93, 3021, 10977  
 architectural, engineering, and consulting firms with certified fallout shelter analysts, 13424  
 Atomic Energy Commission, specialized information and data centers, 1814  
 Bulgarian officials, 4934  
 CAP [Community action programs] grantees, 982, 7873, 10906  
 commercial seed dealers in seed and planting stock for trees and shrubs, 8125  
 community wage surveys, 6615  
 Congress of United States—  
     90th Cong., 1st sess., 7586  
     pictorial, 90th Congress, 5969  
 credit information on foreign firms, sources, 15340  
 DSA field establishment, 6144, 13909  
 Economic Development Administration, approved projects, 13931  
 education, 1966-67—  
     higher education, 16498  
     public school systems, 10930  
     State governments, 15211  
 employment assistance for the handicapped, Federal and State programs, 15664  
 employment security offices, local, 13970  
 Federal statistical, 13353  
 Federal statistics, local areas, guide to sources, 1879  
 foreign consular offices in United States, 10097  
 Fortune, 500 largest U.S. industrial corporations, 1954-65, concentration and divisional reporting, etc., hearings, 12415  
 Government periodicals and subscription publications, 3568  
 governmental resources, foreign affairs research, 17221  
 graduates from predominantly Negro colleges, 2483  
 guidance, counseling, and testing personnel in State Department of Education, 6178  
 Health, Education, and Welfare Department field directory, 12619  
 health units, local, 1569  
 higher education consortiums, guide, 7898  
 Indian Affairs Bureau, 3210  
 industry wage and union scale studies, 5072  
 information resources in U.S. Federal Government, 15458  
 Interagency Boards of U.S. Civil Service Examiners, 14860  
 international mail, 10027  
 changes, 3211

**Directories—Continued**  
 labor unions, national and international in U.S. changes, 2498  
 mental health, 2828  
 military assistance program addresses, MILSTRIP, 9379, 10900, 12445, 13926  
 National and Regional Export Expansion Councils, 16099  
 National Institutes of Health, scientific personnel, 8643  
 errata, 13090  
 Naval Weapons Bureau, 3066  
 Navy prime contractors, selling to, 17100  
 Negro colleges and universities, 9679  
 Neighborhood Youth Corps project sponsors, 2486  
 Peace Corps program, 7037  
 plastics, knowledgeable Government personnel, 2157  
 poison control centers, 17139  
 post offices, 17115  
 post offices, 1967 national ZIP code directory, 14609  
 President's Committee on Employment of Handicapped, membership directory, 2491  
 providers of services under health insurance for the aged—  
     extended care facilities, 15738  
     home health agencies, 11793  
     hospitals, 11794  
 Public Health Service, public advisory groups, 8650  
 public training schools serving delinquent children, 4364  
 recreation areas, Federal, requiring entrance and user charges, 13041  
 refrigerated warehouses in United States, 5559  
 Securities and Exchange Commission companies filing annual reports, 13112  
 smoking and health, on-going research, 11743  
 standardization activities, organizations in U.S., 15589  
 standardization, Federal supply classification, class and area assignments, 16474  
 standardization SD series, 16474  
 State and territorial health authorities, 15680  
 State departments of agriculture, 7836  
 State divisions of vocational rehabilitation and agencies for the blind, 7220  
 superintendents of large public school systems, 6197  
 Surplus Property Utilization Office, HEW regional representatives, 8188  
 telephone—  
     Agriculture Department, 17337  
     Atomic Energy Commission, 14810  
     Commerce Department, 16110  
     defense mobilization organization, 4460  
     House of Representatives, 7592  
     Interior Department, 17850  
     NASA headquarters, 16926  
     Senate, 760, 10689  
     State Department, International Development Agency, Arms Control and Disarmament Agency, 15764  
 U.S. Government inspection services and testing laboratories, 14048  
 urban planning assistance program, projects, 12628  
 urban renewal, 4008, 15725  
 urban research study centers, 14919  
 urbanized area transportation planning programs, 17175  
 wage chronologies, 11331  
 water pollution control, 17767

**Directors:**  
 Project Head Start, guide for directors and health personnel, 12450  
 State civil defense directors, list, 14844  
 State surplus property, directory, 8188

- Dirks, Harlan J., financing livestock exports, 14076
- Dirksen, Everett M., Republican report, 89th Congress, 2d session, supplement, 4572
- Disability, *see* Civil service pensions.
- Disability insurance:
- benefit awards, 1959-62, men under age 65, data, 7079
  - rights and responsibilities of recipients of social security disability insurance, 11800
  - social security disability benefits, find out if you are eligible, 2864
  - social security program, what professional people who work with the disabled should know, 2862
  - social security rulings, 2872, 3881
  - see also* Old-age, survivors, and disability insurance.
- Disabled:
- Federal employees, payment of dual benefits for same disability, procedures for preventing, GAO review, 12592
  - health insurance, provide, hearings, 7763, 10684
  - help through vocational rehabilitation, 17182
  - interviewing guides, 10944
  - multiple handicapped, available Federal services (remarks), 18142
  - neurological and sensory impairments, estimated range and cost of disability, 11745
  - public assistance, money payments to recipients, 4751
  - social security disability applicant statistics, 8691
  - workers—
    - medical care utilization, data, 17202
    - occupational characteristics by disabling condition, 7079
  - see also* Disability insurance—Pensions—Rehabilitation of the disabled—Veterans.
- Disabled American Veterans:
- audit of accounts by GAO, report, 6005
  - legislative program, hearings, 9172
  - report, 1966 convention, 4478
- Disadvantaged children, *see* Children.
- Disadvantaged youth, *see* Youth.
- Disarmament:
- arms control and disarmament—
    - bibliography (periodical), 3041
    - research and studies by Government agencies, report, 4191
    - research studies in progress or recently completed, 5531, 13143
    - Soviet press materials, translations, 3888
  - arms control and limited war, design study, 15924
  - documents, 1748, 15925
  - United States armament and disarmament problems, hearings, 10836
- Disasters:
- aircraft emergency procedures over water, 3016
  - central sterile supply section of packaged disaster hospital, organization, 1577
  - Civil Defense Office labor courses references, 14845
  - community involvement in civil defense, suggestions by American National Red Cross, 16051
  - disaster control and civil defense in Federal buildings, change, 14613
  - economic injury loans, management and technical aid for displaced small businesses, 14643
  - educational assistance in major disaster areas—
    - hearings, 7742, 9153, 12419, 17664
    - reports, 9118, 10537
  - emergency broadcast system, basic plan, 14016
- Disasters—Continued
- emergency escape system uses self-braking mechanism on fixed cable, 5223
  - emergency operations, programmed orientation to civil defense, 13431
  - emergency rescue, survival, Air Force manual, 10209
  - Federal assistance operations, guide, 7919
  - Federal disaster act, activities, report, 7603
  - groups in disaster (paper), 10049
  - if disaster strikes and there is no doctor, medical self-help training, course, announcements, 11738, 13077
  - major, additional assistance to areas suffering, law, 473
  - major, forest and grass fires control, air operation facilities needed, OEP report, 10702
  - print as Senate document, report, 10783
  - major, income tax treatment of casualty losses, report, 7694
  - national emergency standby regulations and instructions, FPM supplement, 3306
  - national, role of licensed practical nurse, 11733
  - natural—
    - activities, emergency employment of Army resources, 17735
    - preparedness, civil defense program materials, 16052
    - what Department of Agriculture can do, 10189
  - Northeast power failure, Nov. 9-10, 1965, hearings, addendum, 2053
  - packaged disaster hospitals materials, catalog and guide for distribution, 13081
  - preparing hospital plant for emergencies, 15688
  - relief funds, appropriations, 1968, reports, 10600, 15131
  - space flight emergencies, survey, 9171
  - see also* Relief work.
- Disbursements, House of Representatives, detailed statement, 7748, 15036
- Discharge, adverse action, law and regulations, FPM manual supplement, 3300
- Discharges (electric), *see* Electric discharges.
- Disciplinary barracks, confinement of military prisoners, field manual, 4207
- Discipline:
- correction series, 13180-182
  - corrections, task force report, President's Commission on Law Enforcement and Administration of Justice, 10031
- Discount companies, food retailing by discount houses, 5632
- Discounts, mortgage, report by HUD, 6091
- Discoverer (ocean survey ship):
- use for ocean environmental research, general information, 9434
- Discoveries (archeological), *see* Archeology.
- Discrimination, *see* Race problems.
- Discrimination in employment:
- age discrimination, prohibit, message from the President, 12198
  - Arkansas State Advisory Committee report to Civil Rights Commission, 13434
  - District of Columbia government employees, prohibit discrimination in hiring, report, 13824
  - equal employment opportunity—
    - Federal employment, pamphlet, 1927
    - Federal service (remarks), 14610
    - federally assisted agricultural programs in Georgia, 16061
    - plans for progress program, 11298
    - Reclamation Bureau, affirmative program of manpower utilization, 13104
    - road to progress (address), 5033
  - legal interpretations, Equal Employment Opportunity Commission, 12450
  - Negro civil status gains should be accompanied by economic status gains (address), 15593

- Discrimination in employment—Continued progress toward goal of equal employment opportunities (address), 17109  
promote equal employment opportunity, hearings, 13877  
quests for economic stability and equal employment opportunity (remarks), 1065  
seven steps to equal employment opportunity, guide, 4750  
sex discrimination, laws, 17295  
State laws, summary—  
because of age, 5050  
fair employment practice act, 5049  
textiles getting new look under civil rights act of 1964, 13994  
Yuma, Ariz., economic data for equal employment opportunity program, 11771  
Discriminators, digital system provides superregulation of monosecond amplifier-discriminator circuit, 5147  
*see also* Frequency discriminators.  
Discussion guide, tape-recorded Department of State briefings, 18227  
Disease Prevention and Environmental Control Bureau, health protection, target, 11734, 17150  
Diseases:  
chronic, comprehensive core services in your community, 5426  
chronic conditions, interview data compared with information derived from Medical records, 11762  
chronic, detection and prevention utilizing multiphasic health screening techniques—  
hearings, 2103  
print additional copies, report, 2031  
report, 2104  
chronic illness among residents of nursing and personal care homes, 11764  
ear, nose, and throat disease incidence in 400 space and test pilot candidates, 14781  
health protection, target of Bureau of Disease Prevention and Environmental Control, 11734  
insect-borne, prevention and control, 11730  
organism reactivity to disease development, USSR hook excerpts, 16741  
prevalence of chronic conditions and impairments among residents of nursing and personal care homes, May-June 1964, U.S. statistics, 14639  
publications, price list, 2801  
vibration, prophylaxis, USSR study, 11265  
*see also* Contagion and contagious diseases—Diseases of animals—Nosology—Occupational diseases—*also* names or classes of diseases.  
Diseases of animals:  
animal morbidity report—  
calendar year, 13195  
fiscal year, 1671  
monthly, 3029  
*see also* names of diseases, or animals affected.  
Diseases of fish, fish disease leaflet FDL (series), 4802  
*see also* names of diseases or fish affected.  
Diseases of insects, *see* names of insects.  
Diseases of plants:  
calendar of activities from home arborist, pest control, etc., 5676  
control in home vegetable garden, 10171  
intercepted plant pests, lists, 7250  
plant disease reporter, 3658  
*see also* names of diseases or plants affected.  
Disinfection and disinfectants, classification definitions, 18119  
Disinfestation, fruit and vegetables by gamma irradiation, 5794  
Disks, sensing, for slug-type calorimeters, invention for higher temperature stability, 11482  
Dislocation of crystals, *see* Crystallography.  
Disney, Walt, medal, issuance, report, 16360  
Disorientation:  
pilots, fatal effects under either IFR or VFR, 5801  
vestibular, adaptation to—  
eye-movements and subjective turning responses to 2 durations of angular acceleration, 15980  
nystagmic eye movements with opposing stimuli, 7447  
responses to angular acceleration and to bilateral caloric stimulation following unilateral caloric habituation, 10322  
visual fixation on nystagmus and sensations of turning, 15981  
Dispersion:  
aerial dispersal of pink hollworm in U.S. and Mexico, 5678  
alloys, selected submicron powder blending methods, comparison, 6880  
devices, gas motivated solids, design, 6687  
fog dissipation experiments using propane, Walla Walla, Wash., 11984  
oxide dispersion strengthened alloys, 17951  
Displacement:  
chemical, of protons in double-bond, rule for estimating, 12727  
gage, for crack extension measurements, design and use, 1513  
plane-stress analysis of edge-stiffened rectangular plate, subjected to boundary displacements, etc., 16895  
radial, cylinders, thin walled, 17947  
residual strains and displacements within plastic zone ahead of a crack, 5489  
stresses and displacements surrounding open pit in gravity-loaded rock, 14356  
Display of merchandise:  
Budapest International Fair, 12687  
carnation blooms, quality after controlled storage, 15863  
sample display service, new way to find agents and distributors overseas, 4923, 14207  
Display systems:  
alphanumeric map information assembly and display system for large computer, 14142  
cross-pointer-type instrument display in landing with helicopter, 1488  
CRT, computer program samples digital data for display, 14440  
integrated display and control systems, simulator evaluations, 14374  
moving-map instrument display in landing approaches with helicopter, evaluation, 11531  
NRL satellite position display, simplified prediction equations, 5349  
peripheral vision displays, 12865  
pictorial navigation display in instrument departures of supersonic transport, simulator study, 12944  
random-scan display of predicted satellite positions, 9994  
rectilinear display gives acceleration load factor and velocity information, 14439  
satellite position display, computer program, 8595  
satellite, use of NTDS, 14593  
SPAD formatter, buffer interface between satellite prediction computer and display, 8593  
stereoscopic, application to analog computer simulation, 6757  
symbol legibility studies, 63-64

Display systems—Continued  
 use of displacement, flash, and depth of  
 dash coded displays for providing con-  
 trol system information, 8354  
 video—new electron microscope employs  
 new techniques, 10884

Disposal of refuse *see* Refuse

Dissent and democracy, 12531

Dissociations (psychic)  
 defended by scientific co-workers, Acad-  
 emy of Sciences, Kazakh SSR, list,  
 11246  
 Ukrainian Institutes 1965, mechanics, de-  
 tached, 1303

Dissociation  
 coupled vibration and dissociation relaxa-  
 tion behind strong shock waves in car-  
 bon dioxide, 4908  
 equilibrium dissociating air stagnation  
 point boundary layer with suction and  
 injection, 8109  
 measured rate constants and their effects  
 on coupled vibrational dissociational  
 flows of oxygen over wedge, interpre-  
 tations, 12943  
 oxyhemoglobin, effect of nitrogen dioxide  
 nitrogen tetroxide, 13219  
*see also* Electrolytic dissociation.

Distances between U.S. ports, 11463

Distillation  
 desalination equipment in city of Shev-  
 chenko diagram, equipment design, etc.,  
 USSR, 11970  
 facilities, salt water, federally owned, sale  
 to government of Virgin Islands, Virgin  
 Islands Corporation, Interior Dept.,  
 General Services Administration, GAO  
 review, 8146  
 low temperature bituminous coal tar, iden-  
 tification of distillable paraffins, etc.,  
 12195  
 thermal sea water, fundamentals of the  
 art of marine evaporators, 17390  
 vapor gap osmotic distillation process,  
 2384

Distortion  
 equivalence judgments in vicinity of bi-  
 nocular illusion, 139  
 voltage effects of SNAP-8 alternator speed  
 controller and alternator performance  
 results, 19930

Distribution (economics)  
 dual distribution, hearings, 6115  
 problems affecting small business, hear-  
 ings, 7817  
 price additional copies, reports, 916,  
 2030  
*see also* names of commodities.

Distribution (statistics)  
 resource distribution problem in network  
 planning algorithm for solution, 17565

Distribution system *see* Military supplies

Distributors *see* Markets and marketing

Distributors (apparatus)  
 distribution equipment, Federal Item Iden-  
 tification guides for supply cataloging  
 supplements, 3280

District Court of United States for D.C. *see*  
 United States District Court for D.C.

District Courts  
 District of Columbia—  
 liens established by judgment or decree  
 recordation by recorder of deeds, re-  
 port, 12385  
 transfer authority rel. to marriage li-  
 cense issuance, report, 12384  
 jurisdiction to recover fees, etc., for offi-  
 cial services over actions limitation, in-  
 crease, amend Tucker act, report, 130  
 magistrates act hearings, 12416

District Courts—Continued  
 Mississippi, eastern division of northern  
 district, terms to be held at Ackers-  
 man  
 law, 14138  
 report, 12379  
 North Dakota, term of court at Williston,  
 N. Dak., additional place, report, 12705  
 proceedings, affidavits, amend U.S. Code,  
 hearings, 2034  
 rules of civil procedure, amendments, 2041  
 Texas, western district, new Midland  
 Division division, create, report, 16236  
 United States, Federal offenders, 1965  
 data, 8100  
*see also* Judges.

District of Columbia  
 act for regulation of practices of dentistry,  
 amend to exempt from licensing re-  
 quirement thereunder dentists em-  
 ployed by District of Columbia—  
 law, 17500  
 reports, 10550, 16384  
 administrative procedures for D.C. gov-  
 ernment, prescribe, report, 9130  
 ARC Speakers Bureau for Washington  
 Metropolitan area, availability of speak-  
 ers, 5198  
 air pollution problems, hearings, 10829,  
 16318, 16406  
 alcoholic beverage control act, amend—  
 hearings, 940, 19294  
 reports, 14963-964, 16258  
 alcoholism, control, prevention, and treat-  
 ment, hearings, 13702  
 appropriations, 1967, law, 436  
 appropriations, 1967, supplemental, pro-  
 posed, 9068  
 appropriations, 1968—  
 hearings, 1133, 11636  
 report, 9120  
 area measurement reports, 7437  
 area wage survey, 5068  
 attachment, exemptions in case of non-  
 residents, amend D.C. code, report, 9086  
 automobile liability policies, make motor-  
 ist coverage required part, report, 13644  
 blind persons register, establish, report,  
 16352  
 Board of Education, administration of non-  
 resident tuition act, GAO review, 4876  
 Board of Higher Education, create—  
 law, 495  
 report, 603  
 Board of Vocational Education, create—  
 law, 495  
 report, 603  
 borrowing authority for D.C.  
 hearing, 13537  
 reports, 13631, 13824  
 bridges to East Potomac Park with visitor  
 facilities, construct, hearing, 730  
 budget, 1968  
 amendments, 9075  
 departmental edition, 4258  
 document edition, 4482  
 business corporation act, amend report,  
 819  
 Capital grounds and contiguous areas,  
 comprehensive plan for development, re-  
 port, 10769  
 census of manufactures, 1963, area sta-  
 tistics, 1834  
 census of mineral industries, 1963, area  
 statistics, 3520  
 children, public day care services and  
 foster home care, provide, report, 16383  
 code of laws—  
 amend, hearings, 2113  
 annotated, 1965 edition, 16333  
 colleges, public establish report, 603  
 commissioners, authority to lease air space  
 above on, and below freeway rights-of-  
 way hearings, 10407, 17595  
 commissioners, hearings, 13022







District of Columbia—Continued  
 optometry practice, regulate, hearings, 16319  
 parking facilities, establishment, report, 13802  
 Pennsylvania Avenue, administration as historic site, report, 9266  
 physical abuse of children, etc., mandatory reporting by physicians, etc., law, 479  
 pistol registration, require, hearings, 10644  
 plant regulatory officials, 5618  
 podiatry, regulating practice, amend act, report, 7691  
 police and firemen retirement benefits, equalize for totally disabled, report, 9129  
 police and firemen's retirement and disability act, amend to make applicable to widows of retired members, report, 10558  
 police and firemen's salary act of 1958, amend, law, 514  
 police canine corps, expand, report, 9127  
 Police Department band, include members of Fire Department, etc., report, 7687  
 Police Department, recruitment and retention problems, etc., hearings, 9152  
 Police Department reorganization, Congress to review report of D.C. Crime Commission, final report, 6011  
 prisoners, work release program, authorize—  
   hearing, 727  
   law, 507  
 public crematorium, establishment, amend act, report, 16379  
 public school food services act, amend, reports, 2087, 16381  
 public schools, custodial and engineering staffing, guidelines needed, GAO report, 12587  
 publications, list, 2802  
 rental property used for residential purposes, require publication of owner's names, hearings, 2113  
 report of 1965-66 compensatory education programs under title 1, Public law 10, 7890  
 representation in Congress, amend U.S. Constitution, hearings, 15044  
 revenues, providing additional, report, 672  
 sales tax, amend, report, 9087  
 school board, election—  
   hearings, 15022  
   message from the President, 16156  
   report, 14949  
 school census, amend act, report, 16378  
 schoolchildren, transportation at reduced fare, increase age, report, 16380  
 Shrine convention, 1967, promulgate regulations, report, 2088  
 square 732, authorization for use as recreation area, law, 412  
 statute of limitations, amend relative to civil actions arising from unsafe property improvements—  
   hearing, 17596  
   report, 16295  
 teachers leave act of 1949, amend relative to sick leave, report, 14991  
 teachers retirement act, amend, report, 14992  
 teachers' salary act of 1955, amend, law, 514  
 telephone calls, obscene or harassing, criminal penalties for—  
   hearing, 10826  
   reports 4582, 9128, 9294  
 traffic act, amend to require report of motor vehicle collisions to police, report, 7689  
 traffic act of 1925, as amended, amend, reports, 12381, 12383, 17623

District of Columbia—Continued  
 transit compact, approval—  
   hearing, 2132  
   law, 478  
   report, 654  
 trust funds, legal investments, list, 6157, 15201  
 unemployment compensation act, amend to exempt public international organizations, report, 16293  
 uniform gifts to minors act, permitting deposit in savings and loan associations, etc., report, 13639  
 victimization and attitudes toward law enforcement, field survey, 13058  
 voluntary admission of patients to institution providing care, education, and treatment of mentally retarded persons, report, 7703  
 war on poverty, examination, hearings, 12420  
 Washington Channel waterfront priority holders, amend act, reports, 895, 7700  
*see also* Capital of United States.  
 District of Columbia Committee, House :  
   calendar, 3473  
   committee print, 4529  
   hearings, 727, 6033, 9152, 10644-646, 12293-294, 13702-703, 15021-22, 16318-320, 17596-598  
   investigations and studies organization, etc., of D.C. Government, authorization, reports, 6017, 7723  
   reports, 2026, 4501, 6011, 7646, 7686-89, 7691, 7700-1, 7703, 9086-87, 9127-30, 9132, 10558-559, 13631, 13638-641, 13644-646, 14949, 14991-995, 14999, 16227, 16258, 16260, 16292-296  
 District of Columbia Committee, Senate :  
   calendar, 3493  
   hearings, 949, 2113, 10829, 13857-858, 16405-407  
   reports, 879, 882, 893, 895, 2087-88, 2102, 15101, 12380-385, 13802, 13824, 16378-384, 17623  
 District of Columbia Court of Appeals, judges, increase number, report, 13638  
 District of Columbia Crime Commission, *see* President's Commission on Crime in District of Columbia.  
 Dittman, Laura, children in day care, with focus on health, 7513  
 Dittmer, Karl, driver, automotive magazine of Air Force, 11949  
 Diuresis, *see* Urine.  
 Divers :  
   USSR manual for rescue divers, 6503  
   visual resolution underwater, 14317  
 Dividends, *see* Corporations—Life insurance.  
 Dividers, *see* Voltage dividers.  
 Diving :  
   Project Sealab, 45-day undersea saturation dive, report, 11669  
   scuba, biologic and physical aspects, 11953  
   scuba diving and underwater sports, USSR study, 6490  
   scuba diving in USSR, 15420  
 Diving medicine, *see* Medicine.  
 Division of Hospitals, PHS, annual statistical summary, diagnostic and demographic data, 8629  
 Division of International Affairs, HUD, available publications on housing, building and planning, 8205  
 Divorce :  
   statistics analysis, 17172  
   vital statistics of U.S., 10070  
 Dixon, Grayson V., automatically controlled air spring suspension system for vibration testing, 9881  
 Dixon, Sidney C., comparison of panel flutter results from approximate aerodynamic theory with results from exact inviscid theory and experiment, 1480  
 Dixon Entrance to Cape Spencer, coast pilot, supplement, 7554

Dizziness and vertigo in aviators, 17359  
 DMS, *see* Defense Materials System.  
 DMSO, *see* Dimethyl sulfoxide.  
 DNA, *see* Desoxyribonucleic acid.  
 Do you know your economic ABC's? (series), 13454  
 Do you measure up to Air Force ROTC? 15885  
 Dobrowolski, Andrzej, analysis of nonconstant area combustion and mixing in ramjet and rocket-ramjet hybrid engines, 1478  
 Docking (spacecraft), *see* Spacecraft.  
 Docks:  
     boat landing, building plan, 39  
     data, Port of New York, N.Y. and N.J., 4736  
     floating, Federal Item Identification guides for supply cataloging, supplements, 3293  
     Port of New York, N.Y. and N.J., facilities maps, 9421  
 Dockter, Leroy, pulverizing lignite in ball mill, 15476  
 Doctors, *see* Physicians.  
 Doctors' degrees, *see* Degrees (colleges, universities, etc.).  
 Doctrine for riverine operations, Marine Corps, 8331  
 Documentation:  
     dissemination of scientific information and documentation in Rumania described, 14222  
     message retrieval systems, manual and automatic, laboratory evaluation, 4166  
 Documents, *see* Congressional documents—Government publications—Records—also subject of documents.  
 Documents Office, *see* Public Documents Division.  
 Dod, Karl C., Engineers Corps technical services, war against Japan, 5096  
 DOD, *see* Defense Department.  
 DOD pamphlets, 7374-75, 8873-74, 10247-250, 11974-980, 13279-287, 15905-923, 17367-370  
 Dodd, Thomas J.:  
     investigation—  
         hearings, 9331  
         report, 9296  
 Doder, Duske, relief, 351  
 Dodge, F. C. W., mineral resources of Desolation primitive area of Sierra Nevada, Calif., 11169  
 Dodge, J. Robert, housing in Ethiopia, 6417  
 Dodge, R. N., fore-and-aft stiffness characteristics of pneumatic tires, 16919  
 Doerr, Robert M., reaction of tungsten-cobalt alloys with oxygen at 1,000° and 1,100°K, 14352  
 Dogs:  
     acute hypoxia, regional lactic acid concentration, 1739  
     anesthetized—  
         and unanesthetized, heart rate response to noise and near-vacuum decompression, 4180  
         cardiovascular responses during repeated decompressions to near-vacuum, 78  
         effect of hydrazine on liver glycogen, arterial glucose, lactate, pyruvate and acid-base balance, 7359  
     breathing 1 and 3 atmospheres of oxygen, effect on tissue oxygenation during hemorrhage, 15895  
     central nervous system, rapid decompression to 1 mm. Hg, residual pathologic changes, 1743  
     conditional reflex activities of dogs poisoned with sarin and soman and then treated with remikol-5, Bulgarian study, 6563  
     District of Columbia canine corps, expand, report, 9127  
     plasma, effect of oxygen, 5712

Dogs—Continued  
     transmitter of hemophilic blood, anticoagulant effect, clotting prolonged, 10244  
 Doing business with Federal Government, 1104  
 Dole Company, President's E award for export excellence (remarks), 7295  
 Dolichopodidae, *see* Flies.  
 Dollars for medical research, 1947-66, sources and performers, 10062  
 Dolph, R. E., insect outbreaks in Oregon and Washington, 17797  
 Dolphins, non-Soviet research, USSR review, 2463  
 Domain structure, magnetic domain switching, simplified technique demonstrates, 17964  
 Dominguez, Ramiro de la Riva, relief, 15070, 16224, 17526  
 Dominica, *see* Windward Islands.  
 Dominican Republic:  
     Army area handbook, 11990  
     background notes, 13133  
     capsule facts for Armed Forces, 15905  
     foreign trade regulations, 4442  
     special study mission, report, 10568  
     weather stations, cooperative meteorological program, continuation, agreement, 8731  
 Dominick, Allen E., conveying mineral interests to, 334  
 Don Juan, Max Frisch's play, Moscow production criticized, 6541  
 Donahue, Thomas R., nomination, hearing, 7823  
 Donald W. Douglas Laboratories, dedication (remarks), 7438  
 Donaldson, Erle C., modifications of pendant drop interfacial tensiometer, 6640  
 Donnelly, Warren H., science, technology, and public policy during 89th Congress, 13716  
 Don't guess! Ask your security supervisor, poster, 13927  
 Door latches, *see* Latches.  
 Doors:  
     combination double door high-vacuum valve provides access to vacuum chamber, 9825G  
     controls for automotive vehicles, Federal standard, 6326  
     heavy hinged, simple motor drive system operates, 8404  
     steel doors and frames, standard stock light-duty 1½- and 1¼-inch thick flush-type interior, standard of trade, 11587  
 Dope (coating materials):  
     semiconductor devices, fabrication by neutron transmutation, 12010  
 Doppler coefficients, *see* Coefficients.  
 Doppler effects:  
     ambiguity function independent of assumptions about bandwidth and carrier frequency, 8598  
     laser Doppler flowmeter measures gas velocity, 6847  
 Doppler method in navigational use of artificial earth satellites, USSR, 11280  
 Doppler radar:  
     automatic frequency control systems responding to Doppler frequency shift, synthesis, USSR study, 16742  
     probing balloon motion, 16532  
 Dorman, Keith W., forest tree improvement research in South and Southeast, 9542  
 Dorn, Georgette M., Latin America, annotated bibliography of paperback books, 12779  
 Dosh, R. N. Bert, Lock, *see* R. N. Bert Dosh Lock.  
 Dosimeters:  
     calibration and use, USSR studies, 6565  
     high intensity radiation dosimetry measured with SEMIRAD, 4219A  
     thermoluminescent systems compared with film badges, 8599

# INDEX 1967

- Dosimetry:**  
 energy dependence of free radical production in alanine, 1744  
 gamma irradiation dosages for disinfection of fruit and vegetables, 5794  
 high intensity radiation, measured with SEMIRAD (secondary-electron mixed-radiation dosimeters), 4219A  
 luminescence dosimetry, international conference on, proceedings, 10297  
 thermoluminescent, observations (paper), 17392
- Doten, George W.**, use of teams in image interpretation, information exchange, confidence, and resolving disagreements, 5752
- Dough, frozen**, market potentials, 7277
- Dougherty, H. T.**, vector diffraction theory, pt. 1, vector integral equation, 7935
- Dougherty, Jack B.**, steps to effective sanitation in smoked-fish plants, 9514
- Douglas, Charlotte A.**, infant and perinatal mortality in Scotland, 5466
- Douglas, Geneva S.**, radioassay procedures for environment samples, 11725
- Douglas Jr, see Fir.**
- Douglass, Bernard S.**, development of plantation of high quality true fir Christmas trees, 2292
- Douglass, Frederick**, 25-cent regular postage stamp (poster), 5387
- Dougllass, Raymond C.**, Permian tethyan fusulinids from California, 16699
- Doumanl, George A.**, Antarctic bibliography, 6621
- Doves, see Mourning doves—Pigeons.**
- Dow, Donaldson A.**, test of large-diameter ring-stiffened cylinder subjected to hydrostatic pressure, 1479
- Downdraft (periodical)**, 12634
- Downs, Eldon W.**, Air University review, 3015
- Downwash (aircraft):**  
 wake momentum surveys of turbulent boundary-layer skin friction on 5 swept wings, measurement, 2725
- Dowtherm A** heat transfer tests, final report, 5762
- Dowtherm A Rankine cycle technology**, final report, 5761
- Doyle, D. V.**, properties of southern pine in relation to strength grading of dimension lumber, 2327
- Draft (military)**, see Conscription.
- Drafting, technician**, examination announcement, 1910
- Drafting instruments**, modifying, to minimize smearing concept, 15547
- Draftsmen:**  
 engineering draftsman, examination announcement, 13445  
 illustrator draftsman—  
 1 & C. Navy training course, 11656  
 3 & 2. Navy training course, 13026  
 office draftsman, examination announcement, 13445  
 pay, national survey, 2507
- Drag (aerodynamics):**  
 aerodynamic investigation of high-drag entry shapes at Mach 15.4, 16986  
 atmospheric probe stability and drag characteristics, 9894  
 coefficients and local flow of family of blunt bodies, 18056  
 coefficients of microscopic spheres in free-molecule flow, 11407  
 high-drag bodies, longitudinal aerodynamic characteristics, 9892  
 hypersonic viscous drag on cones in rarefied flow, 12949  
 measurements, in stream with sinusoidally fluctuating velocity in longitudinal direction, 5749  
 viscous effect on performance of coaxial plasma gun, calculation, 5267
- Drag (hydrodynamics):**  
 injection of drag-reducing fluid into turbulent pipe flow of Newtonian fluid, 14398  
 reduction by dilute polymer solutions in turbulent flow, 14592
- Draggin' Lady (vessel):**  
 documentation with coastwise privileges, report, 10762
- Dragheads (dredges)**, see Dredges.
- Dragovich, Alexander:**  
 Gymnodinium breve on west coast of Florida, 8039  
 oceanographic atlas for Tampa Bay, Fla. and adjacent waters of Gulf of Mexico, 12545
- Drainage:**  
 areas other than airfields, emergency construction, Army technical manual, 111  
 publications, price list, 8623  
 structures for airfields and heliports, emergency construction, 110  
 surface, design for airfields and heliports, arctic and subarctic emergency construction, 7395  
 surface facilities for airfields and heliports, emergency construction, 4214  
 wetland road crossings, problems, 14097  
 see also Mine drainage.
- Drake, Avery A., Jr.**, Martinsburg formation, middle and upper Ordovician in Delaware Valley, Pa.—N.J., 6395
- Drama:**  
 and works prepared for oral delivery, catalog of copyright entries, 969, 13904, 17683  
 Moscow production of Max Frisch's *Don Juan* criticized, 6541  
 voice of the silent stage, 4723
- Drawings:**  
 manufacturers part and drawing numbering systems—  
 Defense Department, 2146, 7847  
 change, 10886  
 micrometer U-tube manometers, 17040  
 naval design manual, 17063  
 changes, 2764  
 scientific and technical, catalog of copyright entries, 968, 2141, 6137, 17682
- Dredges**, hopper dredge dragheads, model study, hydraulic model investigation, 6211
- Dredging:**  
 coding and keypunching geological information form for core grab, and dredge samples, instructions, manual, 6997  
 Engineers Corps policies and procedures relating to cost estimates, bids, and contract awards, GAO review, 14154  
 hopper dredge dragheads, model study, hydraulic model investigation, 6211  
 plain and rifed discharge pipe, comparison tests, 7930
- Drennan, Henry T.**, library manpower, occupational characteristics of public and school librarians, 4713
- Dresses:**  
 changing hem, 7283  
 women's and misses, industry wage survey, 6613
- Drewes, Harald**, geology of Connors Pass quadrangle, Schell Creek range, east-central Nevada, 16694
- Dried foods**, see names or classes of foods dried.
- Dried milk**, see Milk.
- Drill (military)**, see Military drill.
- Drill cores, diamond**, gold distribution from Homestake Mine, Lead, S. Dak., 6679
- Drill press**, safe practices, 9726
- Drilling, gas-petroleum in sea regions**, USSR study, 9640  
 see also Core drilling—Diamond drilling.

Drills (tools):  
hole saw attachment has zero force reaction, 6767

Drinking water, *see* Water.

Driscoll, Norman R., effects of simple stability augmentation system on performance of non-instrument-qualified light-aircraft pilots during instrument flight, 11519

Driscoll, Timothy J., jr., thermoelectric properties of yttrium-group 5 and 6 binary and ternary compounds, 16867.

Drive (electromechanical):  
low speed, long term tracking electric drive system has zero backlash, 14426  
motion drive system is accurately controlled in 1-micron range, 9825F

Drive (power transmission), *see* Power transmission.

Drivers, *see* Automobile drivers—Motor vehicle operators—Motortruck drivers.

Drohot, Jan, relief, 597, 13610, 17501

Dropouts, *see* School attendance.

Drops:  
improved method of determining spread factor of water droplets for pesticide spray coverage, 10149  
mercury droplet parameters including effects of gravity, photographic study, 1509  
*see also* Clouds.

Drosophila, *see* Flies.

Drowning, drownproofing can save your life, 1718

DRS, *see* Research Services Division, NIH.

Drug Abuse Control Bureau:  
criminal investigator, career opportunities, 11095  
fact sheets, 12553-560, 14072-73  
review of activities, etc., 15270

Drug addiction, *see* Narcotic habit.

Drugs:  
abuse and use, medicated man (address), 14075  
animal drug amendments of 1967, hearing, 17605  
antipsychotic, antianxiety, and antidepressant drugs, uses in psychiatry, etc., 2962  
code of Federal regulations, 6276-79  
companies, invasions of privacy, hearings, 4648  
companies, physician ownership, hearings, print additional copies, reports, 916, 2030  
controlled drugs, fact sheet, 12559  
Coronary Drug Project, 15678  
coverage of expenses under medical insurance benefits, Senate amendments, summary, 4567  
Czechoslovak Ministry of Health directives on control of pharmaceuticals, 12685  
drug abuse control, 1965 amendments, fact sheet, 12553  
drug abuse, outline of information, 12564  
drug abuser, fact sheet, 12555  
drug industry, small business problems, hearings, 12317  
drugs of abuse, identification, reaction, etc., 15271  
drugs vs. cancer, 15708  
food, drug, and cosmetic act—  
amend, hearing, 17605  
amended, text, 1083  
enforcement and compliance, FDA report, monthly, 3268  
notices of judgment, 3643  
requirements guide for foreign manufacturers, etc., 17790  
illegal traffic in dangerous drugs, fact sheet, 12554  
import detentions, report, 3820  
mailing of unsolicited sample drug products, etc., prohibit, hearing, 10668  
medical restraint of trade act, hearings, 17661

Drugs—Continued  
pharmaceutical development in USSR, Bulgaria, and Rumania, 15391  
pharmaceutical industry competition, problems, present status, hearings, 16436, 17677  
pharmaceutical preparations, except biologicals, current industrial reports, 8943, 16001  
pharmaceutical preparations which may be dispensed by pharmacies without physician's prescription, Czechoslovakian list, 12673  
pharmaceutical products manufacturing machinery, industrial plant equipment handbook, 7851

prescribed—  
and nonprescribed medicines, 1964-65, type and use in U.S., 18188  
old-age assistance recipients in Cleveland, Ohio, area, inquiry into alleged practices, GAO report, 8150  
welfare recipients in California, controlling payment, GAO report, 2354  
prescription programs, digest, 8628  
psychopharmacologic and psychotomimetic recent research in Czechoslovakia, 16774  
purchase, pricing methods used by various States of prescribed drugs under GAO review, federally aided public assistance programs, Welfare Administration, 9556  
research directions in fields of drug conditioning, 1222  
Russian Index, 8534A  
B legend, FDA manual for pharmacists, 6360  
safety, etc., FDA's life protection series, 12562  
safety, hearings, 2047  
print additional copies, report, 644  
use medicated feeds carefully and wisely, potentially harmful to humans (poster), 16639  
*see also* Narcotics—also names of drugs.

Drums (containers):  
steel shipping, current industrial reports, 3169

Drunkenness:  
control in District of Columbia, hearings, 13702  
offenses, etc., annotations, consultants' papers and related materials, task force report, President's Commission on Law Enforcement and Administration of Justice, 13066

Dry cleaners and dyers, dry cleaning establishments under Fair labor standards act, as amended, 1664

Dry cleaning:  
business, starting and managing, 5497  
service, industry wage survey, 14298  
dry farming, upper Snake River area, moisture conservation for wheat production, 4088  
errata, 11923

Dry Mountain quadrangle, Mont., igneous geology, 2358

Dry-packed beds for removal of strong-acid gases from recycled atmospheres, 5350

Drying:  
equipment, Federal item identification guides for supply cataloging, supplements, 3288  
making basements dry, general information, 1698  
trays, malathion-treated, use to protect raisins from insects during drying and storage, 15859  
*see also* names of substances dried.

DSA, *see* Defense Supply Agency.

DuBridge, R.A., reactor control systems based on counting and Campbelling techniques, 7422

Dubuque, Iowa, population, special census, 8952

# INDEX 1967

- Dubuque County, Iowa, geology, Potosi quadrangle, 6388
- Ducassal, Enrique R., relief, 536
- Duck stamp data, information for collectors, 11075
- Ducks, sea, hunting, possession, transportation, importation in Alaska 1967-68, Federal regulations governing, 14061  
*see also* Mallards.
- Duckworth, Nancy, what label means on luncheon meats you buy, 966
- Duckworth, W. Donald:  
neotropical microlepidoptera—  
genus *Lethata*, 8549  
genus *Loxotoma*, 6969  
genus *Tibloscellis*, 14543  
systematic position of 2 taxa erroneously placed, etc., 5304
- Ducted fans, V/STOL model with 4 tilting ducted fans arranged in dual tandem configuration longitudinal aerodynamic characteristics in ground effect, 18045
- Ductile mandrel and parting compound facilitate tube drawing, 5156
- Ductility:  
electrolytic process for producing ductile vanadium, 12825  
improved, for high strength tungsten alloy, 16969
- Ducts, liquid oxygen ducting cleaned by falling film, method, 16947
- Duda, John R., predicted oil recovery by waterflood and gas drive, Bradford Third and Sartwell sands, Sartwell oilfield, McKean County, Pa., 11373
- Dudley, Richard F., applicator for precision placement of chemicals in soil, 1673
- Duff, John E., probe for accurate determination of moisture content of wood products in use, 2298
- Duffy, Leonard G., relief, 320
- Dugan, John V., Jr., volume ion production costs in tenuous plasmas, 15577
- Duggan, R. E.:  
pesticide analytical manual, 16640  
pesticides, report on residues in food, 15274
- Dugout Project, *see* Project Dugout (Plowshare program).
- Duk Hee Lee, *see* Lee Duk Hee.
- Duk Hwa Hwang, *see* Hwang Duk Hwa.
- Duke, Noriko S., relief, 9247
- Dumas y Alcocer, Julio F., and wife, relief, 9245
- Dummies, electronic, for acoustical testing, 16946
- Dumois, Juan A. relief, 295, 588
- Dunavant, James C., effect of roughness on heat transfer to hemisphere cylinders, 8492
- Dunes:  
Florida sandhills, loss of topsoil slows slash pine seedling growth, 14119  
stabilization with vegetation on Outer Banks, N.C., 16523
- Dunham, Denis F., trial use of foam spray-dried whole milk in selected types of institutions, 13946
- Dunham, Ralph E., teaching faculty in universities and 4-year colleges, 1963 spring, 9413
- Dunlop, Donald V., climates of States, New Jersey, 9426
- Dunn, S. T., thermal radiation property measurement techniques, 9945
- Dunnigan, Keith D., education and training laws, 6122
- Duplicating machines, *see* Copying processes.
- Dupree, Harry K.:  
response of channel catfish fingerlings to different levels of nutrients, 8042  
vitamins essential for growth of channel catfish, 8042
- Dürer and his time, 10079
- Durfee, Robert L., boiling heat transfer with electrical field (EHD), 13334
- Durling, Richard J., catalogue of 16th century printed books in National Library of Medicine, 15598
- Dust, machine for application of dust to cut seed potatoes, 7241
- Dusting apparatus, dustera, general information, 1691
- Dusts and dusting, inert dusts, evaluation as protectant against insect attack on wheat in small bins, 8835
- Dutch elm disease, death of a giant, Dutch elm disease still takes its toll, picture story, 15872
- Dutcher, L. C., surface water and related climate features of Sâbil Sûsah area, Tunisia, 11189
- Duties, *see* Tariff.—*also* names or classes of articles imported.
- Dutton, James J., power reactor technology, quarterly technical progress review, 3697
- Duvall, Vinson L., fertilization uneconomic for forage improvement in Louisiana pine plantations, 14117
- Duvall, Wilbur L., nonuniform radial loads applied to boundary of circular hole in infinite plate, 17914
- Dwarf mistletoe, *see* Mistletoe.
- Dwellings, *see* Housing.
- Dwight, Ill., motor carrier accident, 16872
- Dyeing machinery, wool dyeing and finishing plants, industry wage survey, 15446
- Dyes and dyeing:  
dye binding method for evaluating protein in milk,  
dyeing, patent classification definitions, 5369  
marking fish, 4812  
synthetic dyes, production and sales, 13160  
textile dyeing and finishing, winter 1965-66, industry wage survey, 2501
- DYNAGYRO, mechanical stability augmentation for helicopters, 13307
- Dynamic programming, *see* Programming (mathematics).
- Dynamic stability, *see* Stability of aircraft.
- Dynamics:  
and origin of ocean waves, USSR study, 12674  
characteristics—  
electron bombardment, ion thrusters, 8033  
square plates by passive analog simulation, 5168  
variable-mass slender elastic body under high accelerations, 5188  
computer-aided teaching of dynamic system behavior, 62  
data characterized by time-varying frequency spectrum, method of analyzing, 16996  
deployment dynamics of spinning spacecraft, simulation, 14471  
elastic space stations, dynamic response, study, 15523  
flight behavior of ballasted sphere at Mach numbers 0.4 to 14.5, 18029  
human operator response to step transitions in controlled element dynamics, 5171  
interface of cryogenic liquid experiment in orbit, 2608  
land landing couch dynamics computer program, 15530  
landing loads on vehicle with tricycle landing gear, theoretical analysis, 14472  
lateral-directional, of variable-stability transport aircraft, influence of response feedback loops, 11516  
model, investigation—  
touchdown stability of lunar-landing vehicles, 18042  
water pressures and accelerations during landings of Apollo spacecraft, 16970  
response of rotor blades of tandem-rotor helicopter, predicting, 13310

**Dynamics—Continued**

- slush study in near zero gravity, vehicle and spacecraft description, 11530
- space vehicle flight control systems, analysis and design—
  - component dynamics, 12876
  - short period dynamics, 12871
- stability characteristics of Apollo command module, 8500
- stress testing, biomedical monitoring—
  - Flack test, 7360
  - instrumentation and normal values, 7343
  - Levy hypoxia test, 7344
  - maximum exercise tolerance, ergometer, 7361
- tilt table orthostatic tolerance test, 7362
- structural, of solid propellant rocket motors, 2611
- supercritical shafts on flexible supports, analysis by using transmission line analogy, 1773
- systems, algebraic methods, 2600
- 2-phase liquid-gas weightless medium with aid of surface effects, control, 11562
- water rejection from hydrogen-oxygen fuel cell to hydrogen stream, 18031
- see also* Aerodynamics—Magnetohydrodynamics.
- Dynamics of academic science, etc., 14560
- Dynamometers:
  - calibration of 2 bicycle ergometers used by health examination survey, 7096
  - maximum exercise tolerance, ergometer, biomedical monitoring during dynamic stress testing, 7361
- Dynness, C.T., soil surface conditions following skyline logging, 14104
- Dysbarism, altitude, treatment with oxygen under pressure, 7367
- Dysinger, Dale W., motivational factors affecting Army research and development personnel, 4228

**E**

- E.R.S., *see* Economic Research Service.
- E.S.D., *see* Electronic Systems Division.
- Eagan, Patrick E., relief of estate, 13731
- Eagle (periodical), 3216
- Eagles, bald, symbol of our Nation, announcement and order form, 1565
- Eakins, Thomas, American painting, 5-cent commemorative postage stamp (poster), 17113
- Ear:
  - incidence of diseases in 400 space and test pilot candidates, 14781
  - unilateral caloric stimulation of labyrinth, auto- and cross-correlation of EEG following, 71
- Early skeletons from Tranquillity, Calif., 1531
- Earnings, *see* Salaries—Wages.
- Earth:
  - crust, composition, geochemistry data, 12606
  - earth-ionosphere waveguide channel, propagation of long and superlong radio waves, USSR excerpt, 17873
  - greatest storm on earth, hurricane, 17738
  - horizon radiance profile, analytical techniques which define location of reference horizons, 9802
  - interior—
    - elementary description, 1114
    - secrets, USSR study, errata, 2426
  - internal structure and physics, 9920
  - ionosphere cavity, thinshell model resonances, 2225
  - lunar intersection of tail of earth's magnetosphere, indications USSR study, 1284

**Earth—Continued**

- magnetic field—
  - analysis, 16583
  - influence on diurnal variation of foF2 (Fourier analysis), 8512
- materials—
  - hydrologic properties (series), 16701
  - specific yields, compilation, 16701
- photograph taken by lunar orbiter 1, mission summary, 8429
- photographs from Gemini missions, 12880
- regularization, USSR study, 4951
- vibrations from nuclear explosion in salt dome, 8911
- see also* Geodesy—Terrestrial magnetism.
- Earth satellites, *see* Satellites.
- Earth sciences, *see* Science.
- Earth Sciences Institute, *see* Institute for Earth Sciences.
- Earthquakes:
  - Alaska, 1964—
    - Anchorage area, effects on hydrology, 1123
    - Copper River basin area, effects, 2371
    - effects on communities (series), 11175-176
    - effects on glaciers (series), 11178
    - effects on hydrologic regimen (series), 1122-23, 11177-178
    - effects on transportation, communications, and utilities (series), 12609
    - Eklutna hydroelectric project, Anchorage, Alaska, effects, 6402
    - field investigations and reconstruction effort, 8169
    - horizontal and vertical crustal movement, Prince William Sound, Alaska, 5940
    - hydrologic effects outside Alaska, 11177
    - its geologic setting and effects, summary description, 8169
    - Kodiak and nearby islands, effects, 1121, 11176
    - Martin-Bering Rivers area, geomorphic effects, 2370
    - Prince William Sound, aftershocks research studies, seismology and marine geology, 12117
    - reconstruction, semiannual reports, 9058, 16159
    - regional effects (series), 1121, 2370-71
    - Seward, Alaska, effects, 11175
    - south-central, effect on air and water transport, communications, and utilities systems, 12609
    - south-central, effects on hydrology, 1122
  - Parkfield, Calif., June 27, 1966, seismological and engineering report, 1934
  - Parkfield-Chollame, Calif., June-Aug. 1966, surface geologic effects, water-resources aspects, and preliminary seismic data, 9574
  - Truckee, Calif., Sept. 12, 1966, effects, 9565
  - United States, 12121
  - USSR, 1255
  - see also* Seismograms.
- Earthwork and structures:
  - floodwater retarding structures, hydrologic performance during Colorado storms of June 16-17, 1965, report, 14651
  - winter construction practices, concrete and asphalt, survey, 98
- East (Far East):
  - agricultural data book, 10926
  - agricultural situation—
    - midyear review, 16492
    - 1966 review and 1967 outlook, 12455
  - Far Eastern series, 1627, 2880, 11825, 14674
  - manpower utilization at military installations, report, 9133
  - market profiles, 13463



# INDEX 1967

- East (Far East)—Continued  
 mineral industry, regional review, minerals yearbook chapter, 11367  
 U.S. policy as stated by President Johnson, 2880
- East (Middle East):  
 accessions list, Library of Congress American Libraries Book Procurement Center, Cairo, 3554  
 events, select chronology 1946-67, and background documents, 13862  
 Near and Middle Eastern series, 14680  
 oil problems, USSR commentary, 2441  
 USSR charges blackmail in oil crisis, 15397  
 war or peace, study mission report, 10837
- East (Near East):  
 arms sales to Near East, hearings, 15155  
 market profiles, 13456  
 mineral industry, regional review, minerals yearbook chapter, 6672  
 Near and Middle Eastern series, 14680  
 special study mission, report, 9104  
 translations, 3962  
 United States policy in crisis, 14680
- East (U.S.):  
 feldspar, resources and marketing, 8339  
 fluor spar, Eastern States production, consumption, etc., 16853  
 fresh fruit and vegetable unloads in eastern cities, by commodities, States, etc., 7830  
 log cabins, rustic work and unseasoned wood, protecting from injurious insects, 5627  
 milk consumption and food service patterns in selected institutions, 11935  
 precipitation, effects of tropical cyclone rainfall, 15230
- East Africa, *see* Africa.  
 East Asia, *see* Asia.  
 East Europe, *see* Europe.  
 East Germany, *see* Germany.  
 East Northumberland Canyon, Nye County, Nev., bedded barite, 16689  
 East of the Elbe, Wuraaw, Moscow, Belgrade, and Prague study mission report, 6104  
 East Potomac Park, bridge with visitor facilities, construct, hearing, 750  
 East St. Louis, Ill., air pollution study, 5438-42, 11739  
 East Siberian Sea, turbidimetric observations, 9988  
 East South Central States, *see* Central States.  
 East-West trade, *see* Commerce.  
 Eastern Air Lines, Inc., accident, 4369  
 Eastern Cherokee Indians, *see* Cherokee Indians.  
 Eastern Europe, *see* Europe.  
 Eastern Hemisphere, *see* Hemisphere, Eastern.  
 Eastern States, *see* East (U.S.).  
 Eastern Utilization Research and Development Division, publications and patents, 7254, 15831  
 Easton, Pa., area wage survey, 11324  
 Eastport, Maine to Montauk, N.Y., coastal warning facilities chart, 14719  
 Eastport to Cape Cod, coast pilot, supplement, 5942  
 Eat good breakfast to start good day, 14745  
 Eaton Yule & Towne, Inc., adjustment assistance case pertaining to certain workers, excerpts from Tariff Commission report to Automotive Agreement Adjustment Assistance Board, 8767, 10115, 14705  
 Eau Galle River, reservoir, outlet structure, hydraulic model investigation, 10960  
 Eavesdropping, right of privacy act of 1967, hearings, 12306  
 Eberhard, John P., address, Oct. 28, 1966, 2735  
 Ebert, P. J., energy dependence of free radical production alanine, 1744  
 EBS, *see* Warning systems.  
 ECG, *see* Electrocardiograms.  
 Echenique, Jorge G., relief, 549
- Echinoderma, *see* Sea cucumbers.  
 Echinoids, *see* Sea urchins.
- Echo:  
 magnetostatic, study of yttrium iron garnet rods reveals new mode, 12889  
 radar, movement and predictability, 6220  
 errata, 10964
- Echois, Hamp W., controlling Texas leaf-cutting ants with mirex, 2325
- Echols, William H., aerobic bacteria culture apparatus employing new foambraker, 10007
- Eckel, Edwin B., effects of earthquake of Mar. 27, 1964, on air and water transport, communications, and utilities systems in south-central Alaska, 12609
- Eckerson, A. B., 1966 supplement to dictionary of occupational titles, 6205
- Eckhoff, Mark G., Foreign Service post records in National Archives, list, 14511
- Eckler, A. Ross:  
 papers—  
 Oct. 28, 1966, 1889  
 Mar. 29, 1967, 10383
- Eclipses solar, coronal photographs, isophotes, and flash spectrum, 11551
- Ecology:  
 human, south coastal Guatemala, 9954  
 hydrology and ecology, Pine Barrens, New Jersey (series), 6408  
 Iguanid lizard, 15602  
 trace constituents of closed ecologic system, delineation program, 7369
- Economic assistance, *see* Foreign aid.
- Economic concentration, hearings, 6116, 12415
- Economic conditions:  
 airport influence on community economy, 14786  
 assessment (remarks), 1656  
 Commerce Department, agency of business, promotes economic growth guidebook, 5963  
 current economic happenings (remarks), 17265  
 current outlook for U.S. economy (remarks), 13468  
 current problems and prospects (remarks), 5573  
 domestic economy, problems and forecasts (address), 17473  
 economic data for less developed countries, 4924  
 economic development and college enrollment (address), 16477  
 economic effects of seasonality in OASDHI tax payments, 17203  
 economic environment and urban development (paper), 13929  
 economic improvement and growth (remarks), 7213  
 economic indicators, 3227  
 supplement, 13547  
 economy in 1966, price developments, 14304  
 effects of marketing (remarks), 242, 1960  
 facts about our economy today and in recent months (remarks), 1653  
 governmental controls of economy insure prosperity for all (remarks), 9023
- growth—  
 community level, 1599  
 input and output factors promoting, 225  
 navigation and economic growth, Tennessee River experience, 5567  
 U.S. economic growth to 1975, potentials and problems, study 4462
- Idea of amelioration (address), 9011
- Impact of—  
 Federal procurement, report, 9044  
 tax-exempt foundations and charitable trusts, 4562, 10679  
 print additional copies, reports, 13653, 13820  
 impact of Vietnam (remarks), 10453



**Economic conditions—Continued**  
 improvement for low income groups through Government programs (address), 4109  
 inflation, etc. (address), 17755  
 influence on children, research programs, studies in progress, 8967  
 input-output table of social product, USSR study, 1239  
 livestock-meat economy, simulated inter-regional models, 12453  
 mainland China in world economy, report, 12389  
 Negro and Puerto Rican worker, impact of changing economy, statistics, 16831  
 New York City, some aspects of economic problems, statistics, 15455  
 1967 outlook and 1966 year-end economic review, 4430  
 outlook and its policy implications, hearings, 13544  
 outlook for domestic economy (address), 9012  
 projections of economic expansion (address), 5948  
 prospects for 1967 (remarks), 4425  
 quests for economic stability and equal employment opportunity (remarks), 1065  
 recent gains and future opportunities (remarks), 7212  
 report of the President to Congress—  
   extending date for transmission, law, 9031  
   hearings, 7589, 9046  
   report, 7785  
 responsible conduct and American economy today and 10 years from now (remarks), 2956  
 rural people in American economy, 983  
 science & technology and how they are applied to further economic growth, 13454  
 stable economy, product of shifting policies (remarks), 9496  
 tax surcharge and national economy (address), 18244  
 Vietnam spending effect—  
   hearings, 12187  
   report, 13814  
 vitality of national economy (address), 223  
 what kind of a people are we? can we meet challenges of our Nation? (statement), 18245  
*see also* Negroes—also names of countries, States, etc.  
**Economic development:**  
 Alaska, report, 1939  
 and Federal system, role of State planning (remarks), 13934  
 directory of approved projects, 13931  
 economic development (periodical), 3226  
 project activity supplement, 6159  
 economic development, the human and business equation (remarks), 10905  
 EDA districts, job-creating program, 9380  
 EDA planning grants, 13932  
 programs, status and progress—  
   hearings, 4558  
   reply of EDA to Subcommittee's interim report, hearing, 12313  
   report, 7682  
 regional—  
   industrial location as factor, 13936  
   resource materials, bibliography, 4684  
 role of cooperatives, ILO recommendation, text, 13554  
 Soviet engineers reply to questions on role of their specialties, 6561  
 technology and world trade, symposium proceedings, 8520  
 underemployment concept, way to measure need in Appalachia, 10922  
 Upper Great Lakes Regional Commission's new approach, 17281  
*see also* Foreign aid.

**Economic Development Administration:**  
 annual report, 2159  
 building communities with jobs, 13928  
 business loans, who can borrow, how to apply, 6160, 13930  
 directory of approved projects, 13931  
 grants and loans for public works and development facilities, 7869, 13935  
 job-creating program, district development, 9380  
 planning grants for economic development, 13932  
 press releases, 3715  
 program to help build communities with jobs (address), 17708  
 programs, progress—  
   EDA's reply to Subcommittee's interim report, hearing, 12313  
   report, 7682  
 research review (periodical), 16478  
 technical assistance, what it is, how to apply, 7667, 13933  
**Economic Development Commission, *see* Balanced Economic Development Commission.**  
**Economic indicators, 3227**  
 supplement, historical and descriptive background, 13547  
**Economic Joint Committee:**  
 act establishing, and rules, 10492  
 committee prints, 1977, 4461-62, 5974, 7588, 7590, 9042-45, 10492, 12189-190, 13545-547, 14918-919, 14921, 16147-148, 17564  
 fixing representation of majority and minority membership, law, 9032  
 hearings, 7589, 9046, 10493, 12187-188, 13544, 14917, 14920, 16146, 16149, 17562-563  
 publications, 80th-89th Congresses, 9043  
 supplement, 17564  
 reports, 7785, 12389, 13814  
**Economic Opportunity Office:**  
 advisory councils, monthly newsletter, 2990  
 annual report—  
   departmental edition, 12451  
   document edition, 12208  
 appropriations, 1968, supplemental, proposal, 10696  
 Assistant Directors, nominations of William H. Crook and William P. Kelly, Jr., hearing, 10864  
 community action programs, 3125, 3842, 7879  
   traveler/el viajero, newsletter for migrant, etc., farm workers, 7879  
 economic opportunity act, text as amended, 6120  
 film guide, 10910  
 health services, coordinated funding, in projects receiving or eligible for assistance under programs of HEW and OEO, 13938  
 JCH series, 4688, 7875-76, 9381, 12448  
 legal services, fact sheet, 4691  
 legal services in action, 12449  
 legal services program—  
   annual report, 4690  
   monthly account, 3466  
 news summary of war on poverty, 3632  
 opportunity loan program in rural America, story in pictures and words, 5674  
 press releases, 3716  
 programs, quick facts, 4693, 9384  
 public affairs handbook, factual information for community action agencies, 13940  
 the watershed, a new look at war on poverty, 10915  
 VISTA volunteer (periodical), 4039  
 war on poverty, examination, hearings, 12420, 13878, 15171, 16427, 17665  
**Economic orders, Civil Aeronautics Board, 3661**

# INDEX 1967

## Economic policy:

American industrial development at home and abroad (address), 7561  
are planning and regulation replacing competition in new industrial state? hearing, 16438  
business outlook and national economic policy (remarks), 13453  
Communist China, anti-economism campaign idealizes poverty, USSR historian claims, 6582  
Communist economic reforms, subcommittee report, 12291  
community development district act of 1966, rural public services, etc., reports, 622, 10748  
construction efficiency and economic reform, USSR, 4977  
cost-benefit analysis techniques, bibliography, 1824  
economic activity and monetary policy, postwar review, 11054  
economic and social development of border area, joint commission to study, agreement with Mexico, 7191.  
economic developments 1960-65 (remarks), 2263  
economic opportunity act—  
amend—  
hearings, 15024, 15171, 16427  
law, 17536  
reports, 14952, 14959, 15125  
amendments of 1966—  
law, 498  
narrative summary, 6161, 9382  
amendments of 1967—  
hearings, 17601  
reports, 16364, 17581  
text, as amended, 6120, 7874  
economic outlook and its policy implications, hearings, 13544  
economic policies and practices, foreign government restraints on U.S. bank operations abroad, 9045  
economy, prospects and policies (remarks) 17471  
effects of current events (remarks), 1655  
Federal assistance programs, catalog, 12447  
foreign trade's role in U.S. economy (address), 16098  
goals for 1967, growth and balance (remarks), 5950  
Government and 1967 economy (remarks), 7565  
idea of amelioration (address), 9011  
international affairs, cooperative approach (remarks), 10122  
international economic relations and rule of law (remarks), 10120  
intrafactory mechanism for economic reform, USSR study, 4941  
New England, regional economic research and planning, review, 7871  
scientific management and democracy, East Germany, book review, 16759  
USSR—  
economic reform, improvement of methods of planning and economic stimulation of agricultural production, 4961  
industrial enterprise change-over to new planning system, methodological instructions, 1169  
international economic relations, translations, 4024  
state budget under conditions of implementations of economic reform, 4944  
Yugoslavia, economic reform, science and scientific research work, 6515  
*see also* Economic development—International cooperation.  
Economic regulations, Civil Aeronautics Board, 3228  
Economic research (Chinese periodical): translations, 3944

## Economic Research Service:

agricultural economic reports, 983-984, 2168-70, 6170-72, 7880-82, 9387-89, 10916-917, 12452-453, 13941-942, 16485-487, 17710-711  
appropriations, 1968, hearings, 10629  
economics of agriculture, 1961-65, reports and publications, 13947  
ERS-foreign series, 990-993, 2174, 4700-1, 7886-87, 9393-94, 10924-926, 12455-456, 13949, 16491-494, 17713  
ERS series, 987-989, 2172-73, 4697-99, 6173, 7883-85, 7390-92, 10919-923, 12454, 13944-948, 17712  
foreign agricultural economic reports, 995, 2176, 4702, 15209, 17714  
outdoor recreation research, publications by staff, list, 13945  
periodic reports, list, 10195  
reports, checklist, 3091  
Economic stabilization, *see* Stabilization.  
Economics:  
agriculture, reports and publications, 1961-65, Economic Research Service, 13947  
allocation of resources for handicapped (address), 6179  
analysis, human resources development programs of Federal Government, questions and outline, papers, 12189  
computations according to model of expanded reproduction, USSR book, 16734  
conference on women in Upper Peninsula economy, 2977  
contributions of Professor Samuelson to field of economic thought, review essay, 6616  
cotton gin operations, economic aspects in MidSouth, west Texas, and Far West, 12452  
cybernetics in economy, USSR study, 6537  
dairy marketing, research publications, bibliography, 13950  
do you know your economic ABC's?—  
explanation of input and output factors, etc., 225  
measurement, pacemaker of American economic growth, 7563  
science and technology applications, etc., 13454  
economic education—  
hearings, 14920  
remarks, 1954  
economic efficiency of scientific research, Rumania, 15381  
economic planning aided by mathematics, USSR study, 1328  
economic report on manufacture and distribution of automotive tires, 4798  
economic theory and operational research, USSR book review, 14225  
health economics, program for research, 10050  
health series, 10050, 15685  
instruction, financial assistance guidelines under NDEA, 13956  
macroeconomic productive function as model of economic growth, USSR study, 9630  
mainland China in world economy, hearings, 10493  
marketing research publications, reference, 13944  
milk and bread prices, report, 4539  
minerals in world economy, minerals year-book chapter, 15471  
modern calculation and cybernetics for solving problems, Rumanian studies, 1309  
national defense education act—  
institutes for advanced study, summer 1967, handbook for directors, 1003  
loans to private nonprofit elementary and secondary schools for equipment and materials, 1007

**Economics**—Continued  
 savings bonds, importance in current economic picture (remarks), 18242  
 scientific research—  
   discussion, USSR, study, 11274  
   factors contributing to increased effectiveness, USSR study, 1206  
 staff economic study, Federal Reserve System Board of Governors, 4790, 6303, 14040  
 understanding of the whole developing economic situation, 4792  
**USSR**—  
   macro-economic production functions as applied to economy, 2469  
   public health, medical men and economists discuss, 2462  
 Vientiane plain, socio-economic study, 6578  
 wage-price stability for healthy economic growth and continued prosperity (remarks), 7214  
 wisdom to know the difference (address), 10471  
**Economies in National Government**:  
   background material on economy in Government, 9042  
   coordinated program to relieve pressures in financial and credit markets (remarks), 2951  
   economy in Government—  
     hearings, 12183  
     subcommittee report, 13545  
 NASA BITS, brief ideas, thoughts, suggestions, 16889  
**Economies of size in farming**, 6172  
**Economists**:  
   career opportunities with Civil Aeronautics Board, 17448  
   contingency planning for U.S. international monetary policy, statements, 4461  
   evolution of an economist, review essay, 6616  
   USSR, discuss economics of public health, 2462  
**Economy approach lighting aids**, 10245  
**Ecuador**:  
   agricultural commodities, agreement, 15765  
   Army area handbook, 10268  
   background notes, 13134  
   capsule facts for Armed Forces, 15915  
   foreign trade regulations, 16101  
   Grammias genus, 17049  
   lizards, check list and key, 6948  
   mineral industry, minerals yearbook chapter, 11361  
**EDA, see** Economic Development Administration.  
**Eddy, William H.**:  
   continuous flotation of fluor spar from calcareous Illinois ore, 14339  
   selective flotation of fluor spar from Illinois, 11382  
**Eddy County, N. Mex.**, geology and hydrology between Lake McMillan and Carlsbad Springs, 8178  
**Eddy currents**, techniques used in non-destructive testing of metal parts and components, handbooks describing, announcement, 17985  
**Eden, W. G.**, insect damage to corn at harvest time and in farm storage, 14751  
**Edgar, Clement B., jr.**, mass transfer by sublimation from snow-surface, 4198  
**Edge-type connectors** evaluated by electrical noise measurement, 11462  
**Edisto Island Beach, S.C.**:  
   hurricane survey, engineer report—  
     departmental edition, 9418  
     document edition, 9072  
**Editing, Atlantida**, case study in household sample surveys, 4360

**Editors**:  
   examination announcements, 4411, 10418  
   Navy, NAVNEWS 1967 art portfolio, 7025, 17098  
   technical, examination announcement, 1931  
**Edler, George H.**, relief, 7657  
**Edmisten, N. G.**, interstate air pollution study, 5438  
**EDS, see** Environmental Data Service.  
**EDTA, see** Acetic acid.  
**Education**:  
   activities in fields of mathematics and chemistry, USSR studies, 1341  
**adult**—  
   basic, curriculum guide, beginning level, 4708  
   civil defense, personal and family survival teachers manual, 7916, 12470  
   community action, 2163  
   community service and continuing education, newsletter, 3126  
   need to read and write, information leaflet, 10936  
   alcohol, conference proceedings, 8187  
   allied health professions and services, education for, 14622  
   allowances, uniformed services members for dependents' schooling—  
     hearings, 10636  
     reports, 10569, 12245  
   American education (periodical), 3028  
   American population, 14833  
   American, progress, centennial information booklet, 6191  
   and change in scientific age (remarks), 17401  
   Arkansas State Advisory Committee report to Civil Rights Commission, 13434  
   basic tool for achieving national goals (address), 7918  
   bear something away, advice to graduates (address), 996  
   bilingual education act, hearings, 15170  
   bilingual programs, Federal aid to local agencies, hearings, 15170, 16321  
   children in federally affected areas, 1966  
   annual report, 6175  
   children, research programs, studies in progress, 8967  
   city schools, short-changed (address), 16505  
   classification, Library of Congress, 5087  
   community planning, bibliography, 16540  
   consultation and education, service of community mental health center, 1567  
   consumer, pennywise teenagers, 15215  
   cooperative research monograph series, 2186  
   cooperative research to improve nation's schools, report, 16510  
   critical mass in education (address), 2179  
   Defense Department education of dependents overseas, report, 16322  
   Denmark's system and problems, 9397  
   desegregation guidelines, do they go far enough?, 9398  
   directory—  
     higher education, 16498  
     public school systems, 10930  
     State governments, 15211  
   disadvantaged children—  
     bibliography, 4709  
     national conference, 1008  
     summer education, report, 4720  
   economic education, hearings, 14920  
   educating for 21st century manpower needs, tomorrow is now, 17717  
   education and changing technology (address), 998  
   education '67, programs and services, 15212  
   educational attainment, population characteristics, 4349  
   educational dimensions of model cities program (remarks), 11198

Education—Continued  
 educational institutions, guide for establishing indirect cost rates for HEW research grants, etc., 8189  
 educational manual, 7845  
 educational media, programs under higher education act of 1965, announcement, 2178  
 educational media specialists, national defense education act, institutes for advanced study, summer 1967, handbook for directors, 1003  
 educational opportunities for occupational therapy students, 8899  
 Educational Opportunity Bank, establishment, panel report, 15663  
 educational planning, guide to Federal financial assistance programs, 10931  
 educational research, postdoctoral fellowships, 15216  
 educational television and radio broadcasting facilities, construction, Federal grants—  
   hearings, 10824, 13710  
   reports, 10756, 14980, 16245  
 enactments, 89th Congress, 2d session, 6121  
 engineers in changing society (remarks), 17402  
 equal educational opportunities programs, public school districts, 17 southern and border States, status of compliance, 10943  
 everybody's business (remarks), 6180  
 exchange programs—  
   agreement with—  
     Australia, 15770  
     Brazil, 11837  
     Columbia, 14683  
     Great Britain, 13149  
     Greece, financing, law, 470  
     Israel, 11874  
     Italy, 11842  
     Netherlands, 11861  
     Pakistan, financing, 17236  
     United Arab Republic, 11870  
 international educational and cultural, 1966—  
   fall, 4081  
   summer, 4080  
 opening decades 1946-66, history, accomplishments, etc., 4819  
 opportunities, 14678  
 overseas activities in support of modern foreign language and area studies, 16506  
 exchanges, agreement with Union of Soviet Socialist Republics, 7182  
 Federal employees, task force report, 7046  
 annex, 10030  
 Federal money and recent legislation, 1967 report, 7907  
 Federal money for education, programs administered by Education Office, 7908  
 Federal surplus personal property, how to acquire, 12621  
 Federal surplus real property, how to acquire, 12621  
 fertility and educational attainment, Puerto Rico, 15715  
 good day at Rough Rock, giving education back to Indians, 9400  
 guidance, counseling, and testing personnel in State Department of Education, directories, 6178  
 handicapped, adequacy of programs, hearings, 2046, 7741  
 handicapped children—  
   preparation of professional personnel—  
     grant program, 7897  
     manual, 16508  
   State plan programs, guidelines, 10933  
 health, education, and welfare indicators (periodical), 3394  
 health professions, publications, bibliography, 5459

Education—Continued  
 higher education—  
   act of 1965, title 1, community service and continuing education, newsletter, 3126  
   consortiums, guide, 7898  
   how education and industry cooperate in scientific research, USSR, 8251  
   human frontier, remarks on equality, 1006  
   Indian children, study, authorization, report, 15137  
   Indians, organizational location in Education Office or Indian Affairs Bureau, 13879  
 instruction in State and local school systems, standard terminology, 10942  
 instructional television and film, research, 9409  
 international education act of 1966—  
   law, 412  
   legislative summary, etc., 8191  
 international education, past, present, problems and prospects, report, 527  
 inventory of counselor education programs, 16504  
 is it relevant or just prevalent? (address), 12128  
 Israel, modern system, development, 6187  
 joint commission for review of operation of certain scholarship funds, agreement with Mexico, 7175  
 laws—  
   compendium, 12295  
   text, 6122  
 legislation, 1967, hearings, 12419  
 low and moderate income groups, new programs, 8193  
 Mao's China, 999  
 materials, importation agreement, implementation—  
   hearing, 951  
   law, 371  
   reports, 653, 655, 903  
 materials, importation agreement, text, 5549  
 medical problems in Tadzhikistan, 2474  
 Muslim, reviewed in Soviet press, 1252  
 NASA educational publications, lists, 2614, 16921  
 nation of amateurs, school boards must lead the way (address), 9403  
 national defense education act—  
   administration of programs under title 3, notes and working papers, 17668  
   amend, hearings, 15026, 15170, 16321  
   counseling and guidance institutes, program, 6189  
   graduate fellowship program for predoctoral study, 2187  
   graduate fellowships, 1967-68 graduate programs, 4715  
   institutes for advanced study, preparing, proposals, manual, 9401  
   loans to nonprofit elementary and secondary schools for equipment and materials, 1007  
   modern foreign language fellowship program, 7905  
   science, mathematics and foreign language instruction, etc., financial assistance, guidelines, 13956  
   student loan program, college work-study program and list of participating institutions, 1001  
   title 6, language and area studies, summer, 1009  
 national policy for American education (address), 10935  
 nonprofessional in educational system, community action, 2165  
 nonwhite women, educational attainment, fact sheet, 13185  
 nuclear activities, guide, 5796  
 objectives for Federal funds (address), 13957  
 our common task (address), 2188

Education—Continued

PACAF basic bibliography, 8866  
 parent education, role in helping low-income families, survey of research, 10402  
 peering across the generation gap (address), 15214  
 physical therapists, opportunities, Army Medical Service, 4230  
 prekindergarten, New York State's program, 13962  
 program advisors, professional opportunities, examination announcement, 17462  
 program specialist and advisor, examination announcement, amdt., 10413  
 programs—  
     disadvantaged, Education Office, 6192  
     fact book, 7895  
     proposals, message from the President, 7602  
 projections, statistics to 1975-76, 4719  
 prose, poetry and black power (address), 9407  
 public—  
     in RSFSR, 12761  
     progress in United States 1966-67, report, 12469  
         French edition, 13955  
         Russian edition, 13960  
         Spanish edition, 13952  
 publications, price list, 5413  
 quiet revolution (address), 7892  
 realities of the learning market (address), 9408  
 re-educating confined delinquents, 2798-99  
 reference facts, 16706  
 reinforcing role of States, 2nd annual report of Advisory Council on State Department of Education, 13961  
 relationship to labor (address), 6589  
 research—  
     Education Office training program, 6194  
     postdoctoral fellowships, 1012  
     research in education (periodical), 1013, 3825  
     research or study abroad, overseas projects, 1014  
     returning disabled Vietnam veteran (remarks), 18143  
     role in alleviating rural poverty, 10917  
     scholarships, loans, and financial aids for dependents of Army personnel, 17383  
     scientific-pedagogical personnel, increasing reserves, USSR study, 11276  
     se habla espanol, help for Spanish-speaking youngsters, 13964  
     sons and daughters of deceased or disabled veterans, assistance, eligibility, etc., 17285  
     Southern States, problems (address), 2188  
     specialist and supervisory specialist, examination announcements, 205, 5931  
     State departments, publications on guidance, counseling and testing, guide, 6185  
     State educational records and reports series, handbooks, 10942, 16509  
     State government and education challenge (address), 1015  
     statistics, digest, 2180  
     summer projects, 9410  
     teacher, standards, 6195  
     teachers, exchange opportunities, 13958  
     teaching for the future (address), 13965  
     training activities under manpower development and training act, 9578  
     unfinished work for States (address), 2192  
     upward bound, 1967-68, program to help youth from low income families achieve college education, policy guidelines, etc., 9385  
 USSR—  
     educational institutions, development, 1227  
     translations, 3966

Education—Continued

veterans, permanent program, allowance increase—  
     hearings, 7758, 10859  
     law, 16133  
     report, 10792  
 veterinary medical facilities, construction grants, law, 423  
 visual and auditory materials of educational character, circulation, agreement and protocol, 5546  
 women—  
     continuing programs, 5607  
     trends in educational attainment, 7237, 7239, 13186, 14726  
 Yugoslavia, computer engineering problems, 1321  
 see also Ability grouping in education—  
     Colleges and universities—Compulsory education—Culture—Elementary education—Indian schools—Junior colleges—Naval education—Professional education—Programmed instruction—Schools—Secondary education—Teaching—Technical education—Vocational education—also subjects taught.  
 Education and Labor Committee, House:  
     activities and accomplishments during 89th Congress, 4530  
     calendar, 3474  
     committee prints, 4530, 9154, 10647, 12295, 16322  
     expenditures, investigation—  
         hearings, 4544  
         report, 4517  
     hearings, 728-729, 2045-46, 4531-32, 6035, 7741-42, 9153, 10648, 12296, 15023-26, 16321, 16323-325, 17599-601  
     Investigations and studies—  
         authorization, report, 6021  
         expenses, report, 7724  
     reports, 9118, 10576, 12272, 12275, 14933, 14952, 14972, 16242, 16249, 16298, 17581  
 Education by television, see Television.  
 Education, Extension and Continuing, National Advisory Council on, see National Advisory Council on Extension and Continuing Education.  
 Education of Bilingual Children Advisory Committee, establish, hearings, 15170, 16321  
 Education Office:  
     annual report, 1966, on administration of laws granting Federal aid to schools, 6175  
     appropriations, 1968—  
         hearings, 16390  
         law, 12170  
         reports, 10616, 10766, 16372  
     centennial information booklet, progress of American education, 6191  
     Educational Research Information Center, scope of ERIC clearinghouses, 7893  
     financial assistance programs for State and local governments, etc., 2183  
     how it assists college students and colleges 4712  
     Indian education, inquiry into transfer of responsibility from Indian Affairs Bureau, 13879  
     organization and functions, handbook, 7917  
     programs—  
         administered, 1967 report on Federal money for education, 7908  
         fact book, 6183  
         disadvantaged, 6192  
         handicapped, 4716  
     Research Bureau, support for research and related activities, description, 6193  
     research reports, 1956-65, resumes, 17720  
     study—  
         hearings, 729, 6035  
         preliminary report, 9154

Education Office—Continued  
 summer projects, special report, 9410  
 training program for educational research, 6194  
 what decentralization means to schools and colleges, decisions from the field, 16497  
 Education parks, plans to improve educational quality and desegregate schools, appraisals, 14850  
 Educational and cultural diplomacy, 7150  
 Educational boards and departments:  
   District of Columbia elected Board of Education act—  
     hearing, 17597  
     report, 16260  
   guidance, counseling and testing personnel, directory, 6178  
 Educational Foundation in Italy, *see* United States Educational Foundation in Italy.  
 Educational Foundation in Netherlands, *see* United States Educational Foundation in Netherlands.  
 Educational Foundation, United States-Israel, *see* United States-Israel Educational Foundation.  
 Educational Institutions, *see* Colleges and universities.  
 Educational Materials Center, organization, activities, and services, 4710  
 Educational parks, *see* Education parks.  
 Educational Research Information Center:  
   research in education (periodical), 1013, 3825  
   research reports, 1956-65, resumes, 17720  
   scope of ERIC clearinghouses, 7893  
 Educators, nonprofessional in educational system, community action, 2165  
 Edwards, Lessie, relief, 13573  
 EEC, *see* European Economic Community.  
 EEG, *see* Electroencephalograms—Electroencephalography.  
 EEOC reports, clearinghouse service for business newsletters, etc., 12481  
 Effect of Federal programs on rural America, hearings, 17583  
 Efficiency ratings, airman, describing performance in administrative career ladder by identifying patterns of trait ratings, 11952  
 Efron, Daniel H., ethnopharmacologic search for psychoactive drugs, 17173  
 Eggen, D. T., 1000-Mwe sodium-cooled fast reactor, 1792, 5778  
 Eggs:  
   cleaning, improved methods, techniques, and equipment, 4122  
   commercial egg-producing farms, New Jersey, costs and returns, 16489  
   egg-type chick hatcheries, costs and economies of scale, 5649  
   foreign agriculture circulars, 3345  
   futures—  
     commitments of traders, 3112  
     trading and open contracts, 3369  
   good choice for thrifty family, food value, use, recipes, 9350  
   heat stability of egg white proteins under minimal conditions that kill salmonellae, 11918  
   how to buy by USDA grades and weight classes, 1701  
   market news reports, inventory, 6173  
   midwestern industry, competitive position, 5651  
   plants operating under USDA inspection and grading programs, list, 2137, 16446  
   poultry and egg situation (periodical), 3695  
   prices and price spreads in 12 major cities, 11943  
   processing plants, chemical compounds authorized for use under USDA inspection programs, list, 10878, 16445

Eggs—Continued  
 production—  
   home chicken flock, 10178  
   monthly, 5684, 10107  
   tests, U.S. and Canada, 1966 report, 4085  
   production, disposition, cash receipts, gross income—  
     1960-64, by States, revised estimates, 8848  
     1965-66, by States, 11875  
   products, liquid, frozen, solid production, 3229  
 Egypt, *see* United Arab Republic (Egypt).  
 Ebbersold, William B., review of United States oceanborne foreign trade, 17909  
 Ehrlich, Eugene, future potentials of navigation satellites, 11394  
 Eicke, W. G., designs for surveillance of volt maintained by standard cells, 17042  
 Eigenfunctions, upper and lower bounds for eigenvalues of vibrating beams with linearly varying axial load, 2609  
 Eigenvalues, *see* Eigenfunctions.  
 Eilbert, Richard L., antennas for Gemini VHF-UHF polarization experiment (D-14), 10009  
 Eilers, Robert D., actuarial services for dental service corporation, 11714  
 Eilers, Xavier W., selling in Canada, 16104  
 Eiras, Olibio S. Rodriguez, *see* Rodriguez, Olibio S.  
 Elsenberg, John F.:  
   behavior of Ateles geoffroyi and related species, 5500  
   rodent ethology with emphasis on evolution of social behavior, 15603  
 Elsenberg, Joseph D., high-energy fuels for supersonic transport reserve, 11532  
 Eisenhardt, N. H., dehydrated explosion puffed blueberries, 7249  
 Elsenhower Lock, St. Lawrence Seaway, investigation of concrete, 13987  
 Elsenhower trophy, NGB, announcement of winners, pamphlet, 14523  
 Ejectors:  
   jet—  
     for lift augmentation of VTOL aircraft, wind-tunnel investigation, 2706  
     thrust augmentation characteristics, 10290  
   static calibration of unit for simulation of jet engines in small-scale wind-tunnel models, 6899  
 Eklutna Lake, earthquake of Mar. 27, 1964, effects on Eklutna hydroelectric project, Anchorage, Alaska, 6402  
 Ekren, E. B., geological-geophysical investigations of bedrock in Island Falls quadrangle, Aroostook and Penobscot Counties, Maine, 6401  
 Elastic guides reduce hysteresis effect in Belleville spring package, 8450  
 Elastic strain, *see* Strains and stresses.  
 Elastic structures, *see* Elasticity.  
 Elasticity:  
   analog circuits for 2-dimensional distributed elastic structures, 5169  
   dynamic characteristics of variable-mass slender elastic body under high accelerations, 5188  
   liquid sloshing in elastic containers, 16906  
   plane, integral equation method, 9819  
   space vehicle flight control systems, analysis and design, elastic body equations, 15503  
   viscoelastic shear-damping mechanisms, damping of structural composites, 6728  
 Elastomers:  
   infrared spectrum, 15636  
   laminated elastomeric bearings in UH-1 helicopter tail rotor, evaluation, 17389  
   production and sales, 13161  
   silazane, remains resilient at 400° C, 6825  
 Elateridae, *see* Beetles.



Elbel, Robert E., amblyceran Mallophaga found on Bucerotidae, 8541

Elbert County, Colo., eastern part, soil survey report, 1611

Elder, George H., relief, 605

Elder, James L., technology and use of lignite, proceedings, Bureau of Mines-University of North Dakota symposium, etc., 1398

Elderly people, *see* Aged.

El Dorado, Kans., relief, 791

Eldorado Springs quadrangle, Colo., geology, 11165

Eldorado Valley area, Nev., soil survey report, 14662

Elections:

- campaign expenditures committee, 1966, report, 4516
- conducted by NLRB for you on the job, information for voters, 12994
- District of Columbia elected Board of Education act—
- hearing, 17597
- report, 16260
- electing union officers, requirements under labor-management reporting and disclosure act, 8286
- employee representation, conducted by NLRB, reports, 3589
- Guam governor, etc., popular election—
- hearings, 10852
- report, 10750
- Industrial democracy—
- millions of ballots for, 6938
- 25 millionth vote, 8332
- investigation, expenses, report, 4611
- local union election appeals, analysis, 6592
- political campaigns, financing—
- proposals, hearings, 16408
- remarks, 2955
- predictions and projections of results, effects—
- hearings, 16400
- report, 15143
- President of United States, amend equal time provisions of communications act, hearings, 16400
- reform act of 1966—
- committee print, 4543
- hearings, 739
- reform act of 1967—
- hearings, 13884
- message from the President, 10523
- report, 15108
- Virgin Islands governor, etc., popular election—
- hearings, 10852
- report, 10751
- voting and registration in elections of Nov. 1966, population characteristics, 5877
- see also* Contested elections.

Elective offices of State and local governments, 13361

Electric apparatus and appliances:

- component technology for space power systems, design studies, 15964-965, 17399
- electric housewares and fans, current industrial reports, 4326, 15993
- electrical instrument shipments, 1960-65, analysis, 1826
- engineered performance standards, public works maintenance, handbook, 14567
- equipment components, Federal item identification guides for supply cataloging, supplements, 3289
- information center for electrical equipment, USSR, 15377
- inspection tips, safe use of portable electric equipment, 6602
- safe practices, 9724
- USSR industrial development, translations, 4018

Electric arc:

- constricted, characteristics of gas flowing axially through, numerical calculations, 12955

Electric arc—Continued

- laboratory arc furnace features interchangeable hearths, 8392
- opposed arcs permit deep weld penetration with only 1 pass, 2644
- standard light-sensitive paper for calibrating carbon arcs used in testing textiles for colorfastness to light, recommended method, 12981

Electric batteries:

- circuit prevents overcharging of secondary cell batteries, 1471
- classification definitions, 18125
- dynamics of water rejection from hydrogen-oxygen fuel cell to hydrogen stream, 18031
- fuel cells—
- Government-sponsored research, 1950-64, review, 15514
- potentiostatic current-potential measurements on platinum electrode in high-purity closed system, 10011
- high rate batteries, 8596
- primary cell uses neither liquid nor fused electrolytes, 15544
- primary cells utilize halogen-organic charge transfer complex, 6837
- see also* Storage batteries.

Electric cables:

- clamp bolt fixture facilitates assembly in close quarters, 15533
- coaxial, connector acts as quick coupling, 6783
- coaxial transmission line opening onto flat, dielectric-covered ground plane, input admittance, 16993
- consolidated identification list for test evaluation, Federal supply catalog, Defense Dept. section, 3320
- insulated—
- current industrial reports, 5865
- methods of testing, Federal standard, 15252
- insulation of individual conductors in multiple-strand cables, tester for automatic checking, 14369
- logic circuitry used to automatically test shielded cables, 6819
- metal flame spray coating protects electrical cables in extreme environment, 17931
- multipurpose instrumentation cable provides integral thermocouple circuit, 8391
- plug-in connector socket accepts coaxial cable end, 5144
- power, rubber-insulated, general purpose, Federal standard, cancellation, 1072

Electric circuit breakers, solid state recoverable fuse functions as circuit breaker, 6845

Electric circuits, *see* Circuits.

Electric communications, *see* Telecommunications.

Electric conductivity:

- ionic conductivity of calcium and strontium fluorides, 6866
- sensitive bridge circuit measures conductance of low-conductivity electrolyte solutions, 16880
- soil conductivity, USSR, measurements, 14229

Electric conductors:

- classification definitions, 18128
- high strength, tungsten fiber-reinforced copper composites form, 2678
- insulation of individual conductors in multiple-strand cables, tester for automatic checking, 14369
- see also* Semiconductors.

Electric conduits, Federal item identification guide, 17694

Electric connectors, *see* Connectors (electric).



- Electric contacts:  
bonds, improving in silicon integrated circuits, 16965  
brushes, Federal item identification guide for supply cataloging, 6148  
thin film process forms effective electrical contacts on semiconductor crystals, 11471
- Electric current converters:  
highpower dc/dc electrical power conversion techniques developed, 17997  
low-input voltage converter/regulator minimizes external disturbances, 6843  
solid-state time-to-pulse-height converter developed, 8393  
switching-type regulator circuit has increased efficiency, 12910
- Electric currents:  
bipolar driver for memory circuits, 2627  
clamp provides efficient connection for high-density currents, 11469  
direct current converted to multiphase supplies by signal generator, 17979  
electric current abroad, tabulation, 17415  
interrupted periodically in charging, influence on discharge capacity of electrode, 9998  
linear Hall accelerators, instabilities, 5175  
microcurrent generator produces electrical currents accurately between  $10^{-14}$  ampere to  $10^8$  ampere, 8401  
steering commutator offers versatility, 18005  
thermoelectric couples, calculation of parameters, 1241
- Electric discharge:  
capacity of electrode, changing by charging with interrupted current, 9998  
helium-neon laser discharge parameter study, 17086
- Electric energy, see Electricity.
- Electric engineering:  
Communist Chinese abstracts, 3119  
East European abstracts, 3221  
regulations, 9001  
shore establishments, Naval Facilities Engineering Command, design manual, 18095  
USSR abstracts, 4028
- Electric equipment, see Electric apparatus and appliances.
- Electric fans:  
crossflow ventilation for grain storages, 7248  
current industrial reports, 4326, 15993
- Electric fields:  
absolute measurements using field mills, 13035  
boiling heat transfer with electrical field, 13334  
new near-zone electric field-strength meter, 5291
- Electric furnaces:  
classification definitions, 18118  
laboratory arc furnace features interchangeable hearths, 8392  
radial furnaces, use for growing straight boron carbide whiskers, 9836
- Electric generators, SNAP alternator speed controller and alternator performance results, voltage distortion effects, 12950  
see also Signal generators.
- Electric heating elements, immersion and nonimmersion, Federal item identification guide, 16462
- Electric insulation, see Insulation.
- Electric lamps:  
bulbs, short life, subcommittee report, 4542  
current industrial reports, 3169-70, 15994  
desk light, Federal standard, 17764  
fluorescent, ballasts, current industrial reports, 3170, 13391
- Electric lighting, see Electricity.
- Electric lines:  
appropriations, 1968, underground electric power transmission research, hearings, 12287  
Mosenergo high-voltage overhead electric power network, USSR development study, 6550  
reinforced concrete supports for overhead lines, 6536
- Electric locomotives, see Locomotives.
- Electric machinery, see Machinery.
- Electric motors, solid state circuit controls direction, speed, and braking of dc motor, 1467
- Electric networks, transient analysis generator simulates behavior, 16954
- Electric plants, see Electric power plants.
- Electric power, see Electricity.
- Electric power distribution, see Electricity.
- Electric power distributors, see Electricity.
- Electric power plants:  
Bratsk and Krasnotarsk hydroelectric projects in central Siberia, USSR, bibliography, 8665  
capacity of electric generating plants, world power data, 1058  
distribution systems of electrical power stations and substations, USSR study, 2442  
earthquake of Mar. 27, 1964, effects on Eklutna hydroelectric project, Anchorage, Alaska, 6402  
hydroelectric, 1965, construction cost and production expenses, 11017  
maintenance and operation, Air Force manual, 8855  
Soviet installation of magnetohydrodynamic generator, 15428  
steam, coal resources of southwestern Utah, potential for use, 8341  
steam-electric plants, construction cost and production expenses, 6263
- Electric probes:  
electron temperature variations in exhaust of magnetoplasma dynamic arc, Langmuir probe analysis, 18047  
electrostatic planar and spherical probes theory, 6722
- Electric relays:  
automatic, electrical continuity scanner facilitates identification of wires for soldering to connectors, 6768  
magnetoresistor monitors relay performance, 6810  
relays and industrial controls, current industrial reports, 4343  
trisphere spark gap actuates overvoltage relay, 2671
- Electric resistance:  
iron, pure, residual ratio, 5348  
low cost instrument to measure accurately, 11127
- Electric resistors:  
fixed and adjustable, Federal item identification guide for supply cataloging, 10894  
resistor monitors transfer of liquid helium, 6750
- Electric resonance, frequencies of dielectric sphere immersed in plasma, 12929
- Electric shock, control of electrical shock hazards, student reference, 9732
- Electric shutter gates image orthicon on and off, 15540
- Electric slip rings:  
miniature, environmental study, 14419  
silver-base ternary alloy proves superior for slip ring lead wires, 5212  
wear studies, 18003
- Electric switchgear:  
current industrial reports, 4343

**Electric switchgear—Continued**

hybrid solid state switch replaces motor-driven power switch, 12896  
low rate flow switch can be used for gas or liquid, 8477  
preregulator feedback circuit utilizes light actuated switch, 2663  
rugged switch responds to minute pressure differentials, 17996  
switches, magnetically operated, classification bulletin, 2785  
vacuum clamp switch for Pharos capacitor bank, 9984  
vacuum switchgear, survey, 8440  
variable reluctance switch avoids contact corrosion and contact bounce, 11466

**Electric transformers, high frequency wide band, uses coax to achieve high turn ratio and flat response, 8398**

**Electric typewriters, see Typewriters.**

**Electric utilities:**

statistics, 1965—  
class A and B privately owned, 6262  
publicly owned, 12508

**Electric vehicles:**

automobile and air pollution, report of Panel on Electrically Powered Vehicles, 17470

development, 16580

development act of 1967, program of research, etc., hearings, 13856

evaluation of battery-powered vehicles, 9770

**Electric waves, millimeter-wave generation with electron-beam devices, etc., 6854**

**Electric wire and wiring:**

consolidated identification list for test evaluation, Federal supply catalog, Defense Dept. section, 3320

devices and supplies, current industrial reports, 4345, 16007

Federal item identification guides for supply cataloging, supplements, 3289

hook up and lead wire, identification coding and application, military standard, 12444

**insulated—**

current industrial reports, 5865  
methods of testing, Federal standard, 15252

printed-wiring, terms and definitions, military standard, 16465

rubber-insulated wire, general purpose, Federal standard, cancellation, 1072

soldering to connectors, electrical continuity scanner facilitates identification, 6768

traveling wire electrode increased productivity of electrical discharge machining equipment, 15490

wire insulation, mechanical properties automatically determined, 17981

wire size, occupational safety aid, 9709

**Electric wiring, see Electric wire and wiring.**

**Electrical, see headings beginning Electric.**

**Electrical equipment, see Electric apparatus and appliances.**

**Electrical potential, see Electromotive force.**

**Electricians:**

aviation electrician's mate 1 & C, Navy training course, 11653

construction 3 & 2, Navy training course, 15631

safe work guide, 11303

**Electricity:**

all-electric homes, annual bills, 4771  
appropriations, 1968, underground electric power transmission research, hearings, 12287

basic, fire control technicians, trainee's guide, 1543

Bonneville power generator and sales statistics, 7448, 15982

capacity of electric generating plants and production of electric energy, 1058

classification bulletin, 2785

**Electricity—Continued**

control circuit ensures solar cell operation at maximum power, 9832

electric bulk power supply, reliability, advisory committee report, 14030

electric energy and selected supplies used, census of mineral industries, 7470

electric lighting fixtures, current industrial reports, 5858

electric power statistics, 3230

electric power, USSR industrial development, translations, 4018

electrical energy transmission to vehicles, classification definitions, 18131

Federal power act, regulations, 3816

federally owned electric power, sale to government of Virgin Islands, Virgin Islands Corporation, Interior Dept., General Services Admin., GAO review, 8146

fuels and electric energy used, by major groups, etc., annual survey of manufactures, 17419

hazards of low voltage electricity, 9711

**hydroelectric power—**

development laws, compilation, 1984

pumped storage, bibliography, 14707

improved fluid control circuit operates on low power input, 9827

mid-Atlantic power failure, June 5, 1967, hearings, 13850

national electric rate book, 1050-57, 2248-53, 3595, 4772-78, 6264, 9457-58, 11018-27, 12510-512, 14027-29, 15243-246, 16582-585

Northeast power failure of Nov. 9 and 10, 1965—

analysis and recommendations, 14030

final report to the President, 14030

studies of task groups on power interruption, 14030

nuclear energy for electric power (remarks), 8914

power and distribution equipment, Federal item identification guides for supply cataloging, supplements, 3289

power failures, prevention, 14030

Power Use Conference proceedings, 10323

principal electric facilities, map, United States, 7974

propulsion and power production, French frigate Suffren, 9670

publications, price list, 1562

purchased by REA borrowers, annual report, 10074

retail prices and indexes, 3830

**rural—**

borrowers, statistical report, 18199

electric cooperatives, annual meeting guide, 7105

facility serving Puerto-Cito Reservation, dedication (remarks), 15875

farms electrified with central station service, 2850, 17188

materials acceptable on systems of REA borrowers, list, 3512, 8672, 17187

program, financing, supplemental, hearings 938

publications price list, 7055

REA cooperatives and public utilities situated in single State, exempt from FPC jurisdiction, hearings, 16401

statistical bulletin, 3800

supplemental financing—

hearings, 10625

report, 13659

underground distribution, 17190

utility pole performance study, 1597

rural electrification act of 1936, amend, hearings, 938, 17585

simple technique determines ac properties of hard superconductive materials, 6817

southeastern Federal power program, financial statements, 1966, GAO examination, 15296

# Electricity—Continued

standard arc welders provide high amperage direct current source, 1448  
thermionic diode controlled power system, development, 1433

## TVA—

municipal and cooperative distributors, 1966 operations, 5568  
power 1966 annual report, 1651  
power program, 17263  
sales statistics, retail distribution, 3231  
typical bills, residential, commercial, and industrial services, 4770  
U.S. power system, reliability, 14030  
*see also* Atmospheric electricity.

Electroanesthesia, *see* Electroshock therapy.  
Electrocardiograms:

multifocal premature contractions, ECG finding of grave significance, 15897  
spray-on electrodes enable ECG monitoring of physically active subjects, 9825C  
Electrocardiography, computers and public health, report of recent studies, 11723  
Electrochemical analysis, coal, reduction, 16862

Electrochemical Analysis Section, National Bureau of Standards, activities, July 1966–June 1967, summary, 18080

Electrochemical technic for measuring carbon dioxide content of blood, 10243

## Electrochemistry:

carbon dioxide sensor, 17354  
electrochemical reduction of chlorine on carbon in molten lithium chloride-potassium chloride, 17003  
*see also* Electrochemical analysis.

## Electrodeposition:

copper alloys from cyanide electrolytes, ultrasonics effect, 9787  
iridium, from fused sodium cyanide and aqueous electrolytes, 16865  
platinum and palladium thick coatings on refractory metals from aqueous electrolytes, 16861

## Electrodes:

consumable, touch-start power arc welder, 6803  
cryogenic cooling reduce high voltage arcing between electrodes operating in vacuum, 5146  
glass, flow apparatus to determine acidity constant of true carbonic acid and its rate of dehydration, 12734  
ion, use in measurement of serum ionic calcium, 13271  
large-gap coaxial-cylinder, high-voltage characteristics, 9908  
organic adsorption, 10003  
pasting, exploratory investigation, 8596  
plasma jet, longer operating life, 8385  
platinum—  
in high-purity closed system, potentiostatic current-potential measurements, 10011  
Interaction of carbon dioxide with hydrogen chemisorbed, errata, 8586  
silver oxide, changing discharge capacity by charging with interrupted current, 9998  
spinning electrode system on spark-source mass spectrograph for study of aromatic hydrocarbons, 11380  
spray-on, enable ECG monitoring of physically active subjects, 9825C  
traveling wire, use to increase productivity of electrical discharge machining equipment, 15490

## Electrodialysis, *see* Dialysis.

Electroencephalogram, auto- and cross-correlation of EEG following unilateral caloric stimulation of labyrinth, 71

## Electroencephalography:

helmet system broadcasts electroencephalograms of wearer, 2660  
sleep deprivation, prolonged stage 4 and 1-REM, comparison of effects, 15900

## Electrolysis:

aluminum, fluorine balance determination, USSR study, 9645  
cell for orbital test for water electrolysis, 2607  
cell, water-vapor, with phosphoric acid electrolyte, 12858  
electrowinning and tapping of lanthanum metal, 2586  
high-purity neodymium, praseodymium, and didymium metals, electrowinning from their oxides, 11384

## Electrolytes:

fused sodium cyanide compared to aqueous, in electrodeposition of iridium, 16865  
low conductivity solutions, sensitive bridge circuit measures conductance, 16880  
new, may increase life of polarographic oxygen sensors, 6740  
oxide, solid, for electrolytic dissociation of  $\text{CO}_2\text{-H}_2\text{O}$ , study, 6715  
phosphoric acid, water-vapor electrolysis cell, 12858  
transport through membrane systems, 15332

## Electrolytic cells:

lead-acid cell operation, refractometric sensing of  $\text{H}_2\text{SO}_4$  specific gravity, 18112  
primary cell uses neither liquid nor fused electrolytes, 15544  
saturated standard, surveillance of volt maintained, designs, 17042  
thermally regenerative galvanic cell, iron serves as diffusion barrier, 12843  
water-vapor electrolysis cell with phosphoric acid electrolyte, 12858

Electrolytic dissociation of  $\text{CO}_2\text{-H}_2\text{O}$  using solid electrolyte, study, 6715

Electrolytic methods for producing titanium and titanium alloys, 2579

Electrolytic separation processes, use for producing ductile vanadium, 12825

Electromagnetic current meter, measuring current with EMIT while ship is turning, theoretical foundations of method, USSR study, 1170

## Electromagnetic fields:

effect on central nervous system, 14504  
magnetic line source excited cylinder, radiation through plasma sheath, 5176

Electromagnetic pumps, *see* Pumps.

Electromagnetic waves, *see* Electric waves.

## Electromagnetism:

brazed joint quality tested electromagnetically, 16964  
electromagnetic guidance study, 16896  
exact semiclassical theory for galvanomagnetic effects in metals, 15581  
high transients suppressed in electromagnetic devices, 8463

Electromagnets, classification bulletin, 2785

Electromechanical drive, *see* Drive (electromechanical).

Electromechanical model of man's muscles and its use in programmed teaching, USSR, 2466

## Electrometallurgy:

lead-zinc sluter, complex, electric smelting, 14353  
vanadium, ductile, electrolytic process for producing, 12825  
Electrometer amplifier operates over dynamic range of 5 orders of magnitude, 14414  
Electromigration, solid-state, of impurities in cerium metal, 5129  
Electromotive force, computer programs calculate potential and charge distributions in plasma, 2668

## Electron beams:

devices, millimeter-wave generation, survey, 6854  
parallel X-ray generator, 17983  
pre-lunched beam from linear accelerator, use in plasma oscillations experiment, 12870

- Electron beams—Continued  
 use in purification of vanadium, 15480  
 welder X-rays its own welds, 14423
- Electron bombardment:  
 ion thrusters—  
   dynamic characteristics, 18033  
   onset of anomalous diffusion, 2710  
 mercury ion thrusters—  
   accelerator grid durability tests, 14462  
   cathode durability tests, 12960  
   oxide-cathode durability, 6867
- Electron capture, determination of phenoxy acid herbicides in water and microcoulometric gas chromatography, 15312
- Electron diffraction, electron optical survey of iron oxide films produced in  $H_2O$ ,  $LiOH$ , and  $LiOH/EDTA$  solutions, 8594
- Electron gas in magnetic field, 11569
- Electron micrographs, replica method for observation of micrometeorite craters in metal substrates, 9815
- Electron microscopes:  
 employs new video display technique, 16884  
 investigation of structure of cerebral cortex and mitochondrial nerve cells, USSR study, 15348  
 technique, use in oncogenic virology, 8269
- Electron microscopy:  
 electron-histochemical investigation of experimental myocardial ischemia, 14219  
 electron microscopic study of cerebral cortex of man and experimental animals in convulsive states, USSR, 12752  
 histochemical methods, USSR study, 12661
- Electron multipliers, improved performance and stability, 11438
- Electron probe microanalysis:  
 qualitative, X-ray wavelength conversion tables and graphs, 17039  
 scanning, 5288
- Electron spin resonance, research conducted in field of macromolecular chemistry, Hungary, report, 11256
- Electron scattering, *see* Scattering.
- Electron tubes:  
 and associated hardware, consolidated identification list for test evaluation, Federal supply catalog, Defense Dept. section, 2151, 3319, 7856  
 space applications, requirements, 5231  
 television and radio receiving tubes, temporary suspension of duty, report, 2028
- Electronarcosis, *see* Electroshock therapy.
- Electronic apparatus and appliances, *see* Electronics.
- Electronic circuits, *see* Circuits.
- Electronic computers:  
 abscissas and weights for Gaussian quadrature, 5284  
 acquisition and installation of computers by Army, Pacific, GAO review, 9552  
 alphanumeric map information assembly and display system for large computer, 14142
- analog—  
 determines moments of inertia of asymmetrical objects, 6798  
 parasitic-load speed control for solar-Brayton system turboalternator study, 5258  
 simulation, application of stereoscopic display system, 6757  
 use of passive circuit for study of square plates, 5168
- analog and digital computer requirements in USSR, 1236
- analysis of interpreter-computer reporting techniques, 7403
- applied mathematics, computers, and information models, USSR study, 16735
- attempts to free engineer from need to master computer language, USSR study, 5020
- BESM-6 computer, USSR study, 1316
- Electronic computers—Continued  
 blind programmers, translator program converts computer printout into Braille language, 11441  
 central digital data acquisition system, computer-controlled, 11492  
 choice of parameters of influence functions using, USSR study, 1181  
 CINDA, Chrysler improved numerical differencing analyzer program, 15546  
 Communist Chinese abstracts, 3117  
 computational procedure for finite difference solution of one-dimensional heat conduction problems reduces computer time, 2675  
 computer and invasion of privacy by Government agencies, hearings, print additional copies, reports, 10592, 10786  
 computer engineering in railroad transportation, USSR study, 1173
- computer program—  
 calculates monotonic maximum likelihood estimates using method of reversals, 11465  
 calculating allowable cut using area-volume check method, 8080  
 simplifies transient and steady-state temperature prediction for complex body shapes, 9825A
- computer solution of exponential decay or washout curves, evaluation, 15894
- computer technology, USSR—  
 developments, 15394  
 problems in assimilating, 2449
- computerized parts list system coordinates engineering releases, parts control, and manufacturing planning, 17929
- cybernetic testing, 8864
- data reduction technique for Langmuir probe analysis of electron temperature variations in exhaust of magnetoplasma-dynamic arc, 18047
- digital—  
 adaptive control system, theoretical and experimental research, 5170, 14378  
 application to formulation of problems in curvilinear coordinate systems, 9906  
 codes for design and evaluation of convectively cooled nuclear-type rocket nozzle, application, 5269  
 computation systems for real-time training simulators, military standard, 9373  
 control bessemer converter process, USSR study, 1253  
 control for automatic addressing of goods, USSR book excerpts, 15383  
 high-speed, structural analysis and matrix interpretive system, 12899  
 PRESTO II program for trajectory optimization, 6717  
 program for analysis and design of state variable feedback systems, 14397  
 program for calculating steady temperature, etc., in gas containing heat sources, 16987  
 superregulation of nanosecond amplifier-discriminator circuit, 5147  
 telegraphy input-output devices, USSR study, 1254  
 use in processing X-ray photos, 6741  
 Zam series, USSR study, 1308
- digital filters, random process theory aids study, 16952
- digital frequency counter permits readout without disturbing counting process, 6818
- digital plotters, subroutines GEORGE and DRASTC, simplify operation, 15485
- East European abstracts, 3219
- geographic coding for 1970 census (paper), 4304
- guidance computer memories, present and future state of the art, 18049
- impact on job analysis in Air Force, 13268



Electronic computers—Continued

internal magnetization of seamounts and its computer calculation, 12612  
 machine for engineering calculations, USSR study, 1214  
 manipulating dates and time lapses in computerized records system, 72  
 mathematical computer programs, compilation, 5196  
 mathematical problems of cybernetics and computer engineering, USSR study, 16784  
 method of fitting surfaces to assay and other data in three dimensions by quadratic-regression analysis, 2580  
 midcourse navigation using statistical filter theory, manual theodolite, and symbolic computer control, 6905  
 Minsk-22 digital computer at Hungarian computer center, operation described, 15355  
 modal combination program for dynamic analysis of structures, 15527  
 MOSFET analog memory circuit achieves long duration signal storage, 6766  
 NELIAC-N program, calculate components of earth's magnetic field, 17083  
 new electronic computers developed, USSR study, 4949  
 power-spectral-density program, 11481  
 predicting 3-phase flow in 5-spot water-floods, techniques 15477  
 privacy, role of computer as potential invasion, hearings, 10856  
 programming—  
   computes single-point failures in critical system designs, 11437  
   detects transient malfunctions in switching circuits, 9826  
   forestry, evaluating long-term investments, 14131  
   gamma-ray spectra, analysis by method of least squares, 8630  
   land landing couch dynamics, 15530  
   linear ac electrical and electronic circuits for steady-state conditions, 16962  
   log lumber recovery and value, program, 14080  
   MAP (Macro assembly program) read-routine for IBM 7094 Fortran II binary tapes, 4845  
   Monte Carlo techniques for statistical system performance analysis, 16950  
   natural frequencies of closed spherical shells determined, 16939  
   oceanography, 14570  
   performs flow analysis through turbines, 1472  
   PRESTO for rapid earth-to-space trajectory optimization, errata, 5157  
   PRESTO version delta, 5178A  
   radiative, conductive, and convective heat transfer problems for variety of geometries, 17959  
   samples digital data for CRT display, 14440  
   stimulates physical systems by solving simultaneous differential equations describing systems, 15526  
   STOP, supersonic transport optimization trajectory, 11415  
   subroutine ISUDS accurately solves large system of simultaneous linear algebraic equations, 17926  
   systems for reduction and analysis of hydrologic data, 13197  
   velocities and streamlines, calculating for 2-dimensional, incompressible flow in axial blade rows, 5245  
 programs—  
   ablation analysis, 2724  
   analog computation use in predicting dynamic temperature excursions in orbiting spacecraft, 6853  
   auto-diagrammer, 2682

Electronic computers—Continued  
 programs—continued

calculate potential and charge distributions in plasma, 2668  
 calculating veneer recovery volume and value, 16044  
 chemical equilibria determination in complex systems, 6828  
 determines inventory size, 2641  
 determines performance efficiency of remote measuring systems, 2638  
 elastic analysis of highly redundant structural configurations, 17960  
 equilibrium thermodynamic properties of gases, 9898  
 equivalent circuit for field effect transistor for computer simulation, 6844  
 finite-difference solutions of shells of revolution under asymmetric loads, 11497  
 linear sampled-data analysis for high order systems, 16942  
 multiple correlation determines relations between several independent and dependent variables, 16961  
 numerically controlled milling machines, 2662  
 off-design performance of axial flow turbines, 8411  
 optimization finds value for independent variables that minimize dependent variable, 17958  
 PERT technique monitors actual versus allocated costs, 8458  
 predicts thermal and flow transients experienced in reactor loss-of-flow accident, 17919  
 reduces calculation time of normal response functions, 11446  
 routine adds plotting capabilities to existing programs, 2643  
 satellite position display, 8595  
 searches characteristic data of diodes and transistors, 2654  
 simulates design, test, and analysis phases of sensitivity experiments, 11439  
 space trajectories, for IBM-7090, 15524  
 spectral analyses of up to 7 time series, 2661  
 statistical analysts for random processes, 2652  
 subroutine allows easy computation in extended precision arithmetic, 2639  
 transient analysis generator simulates behavior of electrical networks, 16954  
 VARI-QUIR III provides solution of steady-state, multigroup, 2-dimensional neutron diffusion equations, 17927  
 random integer dispenser, 14116  
 recognition devices, engineers aided in designing through study of brain diseases, USSR study, 6488  
 Rumanian colloquy, 1277  
 satellite telemetry data simulation program, generalized, 1508  
 Setun, using weather satellite data for automatic compilation of cloud maps, USSR study, 12660  
 simulation of plasma and many-body problems, symposium, 16928  
 solid propellant rocket motor performance computer programs using group transformation method, 1483  
 Soviet Minsk-2, and biochemistry, Bulgarian study, 4947  
 SPAD formatter, buffer interface between satellite prediction computer and display, 8593  
 stability theory of multistep methods, 11523  
 stored-program computer application to small scientific spacecraft, 11533  
 teaching dynamic system behavior, 62  
 technology in Soviet economy, 1310

Electronic computers—Continued  
 technology of production, USSR study, 6493  
 time, leisure, and computer, crisis of modern technology (remarks), 5799  
 triple modular redundancy operation improved, 9848  
 Ural-4, microlanguage programming and sorting on magnetic tape, USSR study, 12758  
 uses—  
   analysis of nuclear facilities experimental data and control, 14808  
   evaluation of design parameters and cost of heat exchangers, 14324  
   higher education, report of advisory committee, 8615  
   scientific experiments, USSR study, 11245  
 USSR abstracts, 4027  
 USSR centers and automatic accounting and control systems, 1340  
 VULCAN (digital computer depletion program), use with independent 1-dimensional spatial calculations, 16990  
 X-11 variant of census method II seasonal adjustment program, 5902  
 Electronic counters, counting and sizing rabbit spermatozoa, 11954  
 Electronic cross sections, *see* Cross sections.  
 Electronic data processing systems:  
   application—  
     organization control systems, USSR study, 1273  
     seabirds numerical coding, study, 14536  
   base procurement mechanization system, AF manual, 10211  
   bills and statements of account prepared by electronic data processing equipment, classify as 1st-class mail, amend U.S. code, hearing, 12424  
   careers in automatic data processing, Veterans Administration, 17287  
   coding and keypunching geological information form for core, grab and dredge samples, 6997  
   command information processing systems, human factors research, 119  
   computer tape, pocket-size manual tape reader device aids checking, 17972  
   data processing—  
     DSA civilian career program, 13910  
     management in Federal Government, hearings, 16328  
     Social Security Administration (lectures), 15737  
   digital filters for non-real-time data processing, 17935  
   digital magnetic tape system for recording radar data, 17096  
   equipment, Federal item identification guides for supply cataloging, supplements, 3292  
 FORTRAN programs—  
   calculation of hourly values of astronomical tide, etc., 9428  
   calculation of Wigner 3j, 6j, and 9j coefficients for angular momenta, 1526  
   chemical kinetics, effects on exhaust-nozzle performance, determining, 15575  
   computation of Weber functions and derivatives, 8484  
   contour plotting, utilizes subroutines, 16958  
   determining chemical composition of physical system at equilibrium, 9825E  
   GAROL code, calculation of resonance neutron absorption, 15486  
   request oriented information selection, 8506  
   rotating components of turbomachinery, design simplification calculations, 15488

Electronic data processing systems—Con.  
 FORTRAN programs—Continued  
   steady-state temperature distribution, calculating procedure, etc., 15487  
   thermodynamic data, calculation, 15566  
 Hungarian data processing programs, 15375  
 Industrial plant equipment handbook, 7848  
 Inter-agency coordination of planning to take advantage of technological improvements relating to—  
   agency-Treasury operations, 10119  
   disbursing and banking operations of the Government, 10118  
 linear circuit analysis program for IBM 1620 Monitor II data processing system, etc., 15525  
 management of automatic data processing in Federal Government, training programs, ADP Management Training Center, 16062  
 MAP (Macro assembly program) (read-routine for IBM 7094 Fortran II binary tapes, 4845  
 multipurpose data acquisition system for instrumentation of nearshore environment, 16522  
 northeastern forest-inventory data-processing system, 11134  
 problems of science of production engineering, USSR study, 2432  
 Project LITE (legal information through electronics), hearing, 15034  
 STARS II, fully automatic satellite data processor, description, etc., 11527  
 USSR data processing units, ISKRA-1, ISKRA-2, POISK OK-1 and POISK DV-1, 1216  
 Electronic dummy for acoustical testing, 16946  
 Electronic engineers, job types, 4170  
 Electronic equipment:  
   automatic electronic test and checkout, definition of terms, military standard, 7861  
   components—  
     Federal item identification guides for supply cataloging, supplements, 3289  
     process reduces secondary resonant emission, 6839  
   encapsulation of electronic parts in plastics, review, 7864  
   engineered performance standards, public works maintenance, handbook, 14567  
   guided missiles preferred items list, military standard, 7862  
   maintenance, Coast Guard manual, 4416  
   amendment, 10441  
   packaging, Navy systems design guidelines manual, 17099  
   selected electronic and associated products, current industrial reports, 5871  
   underwater robot being developed for ocean research, USSR study, 6568  
   *see also* Electronics.  
 Electronic filter discriminates between true and false reflections, 9837  
 Electronic frequency discriminator, 12888  
 Electronic measuring instruments:  
   digital measuring devices, new design, USSR study, 9656  
   Randle Cliff radar digital range-measuring instrument, 18114  
 Electronic modules:  
   embedment stresses, use of transducer to measure, 17978  
   microelectronic module, repairable, high-density, provides effective heat sink, 17967  
   packaging, 6822  
   weld joint damage, test device prevents by eliminating pin forces on unpotted modules, 17970  
 Electronic stethoscopes, *see* Stethoscopes.

# INDEX 1967

- Electronic switches:  
automatic channel switching device, 9849  
computer program detects transient malfunctions in circuits, 9826  
integrator easily set and reset using electronic switch, 11464
- Electronic Systems Division, technical reports, 62-65, 4166, 8561-64, 13262
- Electronic technicians:  
class C—  
AN/GRC-27A, radio maintenance course, trainee's guide, 11666  
AN/SRC-20, AN/SRC-21, radio sets, trainee's guide, 8582  
examination announcement, 1910
- Electronic test instrument generates extremely small current signals, 17923
- Electronics:  
administration, trainee's guide, 2782  
aids for physician, USSR study, 1329  
biology and medicine application, USSR research, 4970  
circuitry, NASA report, 5193  
communications, activities—  
Air Force manuals, 10217-219  
terminology, Air Force manual, 8856  
communications-electronics reference data, Army field manual, 1760  
communications principles and applications of mathematics, technical manual, change, 15953  
Communist Chinese abstracts, 3119  
East European abstracts, 3221  
East European industries, translations, 3955  
electronic-mechanical method of measuring air current velocities, USSR study, 1178  
fire control electronics, trainee's guide, 2776  
fire control technician training, test equipment, trainee's guide, 7023  
high intensity radiation dosimetry measured with SEMIRAD (secondary-electron mixed-radiation dosimeters), 4219A  
Installation and maintenance book, change, 2853  
microelectronic module, repairable, high-density, provides effective heat sink, 17967  
microelectronic terms and definitions, military standard, 13922  
maintenance, Coast Guard manual, 4416  
amendment, 10441  
medical, new devices developed, USSR study, 1264  
more Belorussian scientists and engineers needed to train specialists in microelectronics, 1271  
physiological research, USSR study, 4964  
products in Australia, market information, 16105  
publications, price list, 1562  
technology, 2-year post high school curriculum, 1000
- USSR—  
abstracts, 4028  
industrial development, translations, 4019
- Electronics mechanics:  
communications relay equipment operator, examination announcement, amdt., 203  
electronics technicians, examination announcement, 12109  
examination announcement, amdt., 203
- Electronics technicians, *see* Electronics mechanics.
- Electrons:  
angular distribution of thick-target bremsstrahlung which includes multiple electron scatterings, 14466  
density, concept for using laser beams to measure in plasmas, 6807  
density in topside ionosphere, Alouette I observations, 2617, 6736, 16930  
electron-sensitive solid state matrix, research and development, 16897
- Electrons—Continued  
energy required to produce electron-hole pair in silicon by tritons, 1501  
estimation of electron impact cross sections for molecular hydrogen, 11546  
flow in low-density argon gas including space-charge and elastic collisions, 14480  
free, in presence of magnetic field, ultrasonic attenuation, theoretical investigation, 2705  
inertia effects of ion cyclotron wave generation in uniform and nonuniform plasma, 12962  
irradiation, effects from 20 KeV to 1 MeV on polyethylene terephthalate capacitor-type meteoroid detector, 1491  
irradiation of mylar, charge storage effects, 2610  
low energy, collision cross section data, bibliography, 8521  
magnetically induced nonequilibrium electron temperatures, 9995  
Monte Carlo code for solution of planar electron-diode problems including electron-neutral elastic collisions, 15558  
paramagnetic resonance and magnetic susceptibility of CU (II) compounds with dicarboxylic acids, USSR study, 14252  
scattering and bremsstrahlung cross-section measurements, 9811  
stopping power and range tables, 5192  
synchronous altitudes, trapped radiation environment models, 8437  
temperature determination from X-ray continuum radiation emitted from high temperature plasmas, 11681  
temperature variations in exhaust of magnetoplasma dynamic arc, Langmuir probe analysis, 18647  
transmission through thick silicon targets, 11498
- Electrooptics:  
electro-optic light modulators, 1489  
properties, 11487
- Electrophoresis, improved continuous electrophoresis apparatus, application to study of petroleum, 9764
- Electrorefining, *see* Smelting.
- Electroshock therapy:  
electroanarcosis and electrosleep in man and animals, USSR book excerpts, 15396  
electrosleep and electroanesthesia (electroanarcosis), USSR articles, 8256  
treating neurodermatitis patients with electrosleep and hypnosis, USSR excerpt, 17874
- Electrosleep, *see* Electroshock therapy.
- Electrosorption, desalination by electrosorption and desorption, 6445
- Electrostatics:  
static electricity of polymers reduced by treatment with iodine, 14411  
test instrumentation evaluates hazards in fluid system, 11474
- Electrothermic equipment, processes and apparatus of vacuum electrothermy, USSR study, 12720
- Electrothermics:  
electrothermal method for producing aluminum and its alloys, history, USSR study, 12719  
vacuum electrothermy, processes and apparatus, USSR study, 12720
- Electrowinning, *see* Electrolysis.
- Elementary education:  
aid to strengthen and improve educational quality and opportunities, administration of programs, notes and working papers, 10865-867  
elementary and secondary education act—amend rel. to bilingual education, hearings, 15170, 16321



- Elementary education—Continued  
 elementary and secondary education act—continued  
 amendments of 1966—  
 administration of programs, notes and working papers, 10865-867  
 law, 462  
 amendments of 1967—  
 hearings, 7742, 9153, 12419, 17664  
 reports, 9118, 10557  
 handicapped children, State plan programs guidelines, 10933  
 FACE, projects to advance creativity in education, supplementary centers and services, etc., 2189, 7915, 10940-941, 17723  
 profile, 9406  
 title 1—  
 annual report, 7890  
 grants, application forms, instructions, 16503  
 school year 1965-66, highlights, 15218  
 staffing for better schools, 16511  
 title 2, grants, guidelines, 16513  
 ESEA amendments, what's new, 6198  
 planetarium, elementary-school teaching resource, 5278  
 public elementary and secondary day schools, pupils, teachers, etc., fall 1966, statistics, 7896  
 Elements (chemical), *see* Transition elements.  
 Elenowitz, Leonard, cooperative ventures in urban America, 14187  
 Elevations, *see* Altitude.  
 Elevators, freight, safe practices, chart, 9727  
*see also* Grain elevators.  
 Eley, Cleveland P., floriculture and ornamental horticulture, marketing, etc., 7885  
 Elias, Z. M., duality between problems of stretching and bending of plates, 5186  
 Eliza Kane (USN oceanographic ship), general information, 14568  
 Elk, population, Yellowstone National Park, control, hearings, 10803  
 Elk County, Pa., waterflood, Kane sand, Kane oilfield, theoretical and field performance, 9769, 12814  
 Elk Creek, Pa.:  
 harbor, improvement, engineer report—departmental edition, 4731  
 document edition, 4473  
 Elkhorn Mountains, northern, geology and igneous petrology, 2367  
 Elkin, Robert, analyzing time, costs, and operations in voluntary children's institution and agency, 7231  
 Elkins, Douglas A., economic and technical evaluation of magnesium production methods, carbothermic, 11376  
 Elender, Allen J., review of U.S. Government operations in Latin America, 7770  
 Eller, Charles:  
 agar concentration in counting clostridium colonies, 17346  
 recovery of clostridia from human feces, 4182  
 Elliott, Carl V., relief, 300, 788  
 Elliott, Joseph W., effects of age, etc., on characteristics of salmon fingerlings, 8042  
 Elipsoids, stress determination in rock-burst-prone area, Galena mine, Wallace, Idaho, 14351  
 Ellipticity, minimum-impulse time-free transfer between elliptic orbits, 1432  
 Ellis, William B., nomination, hearings, 6094  
 Ellis County, Okla., soil survey report, 8703  
 Ellis Island:  
 commemorative medals—  
 law, 394  
 report, 899  
 Elm, *see* Dutch elm disease.  
 Elm bark beetles, *see* Beetles.  
 Elm spanworms, *see* Spanworms.  
 El Paso, Tex.:  
 Chamilal boundary, border highway—law, 499  
 reports, 630, 701, 904  
 land conveyance—  
 bearing, 721  
 law, 471  
 report, 682  
 El Real, Darien Province, Panama, environmental survey, 8895  
 El Salvador:  
 amateur alien radio operators, authorization to operate, agreement, 17242  
 mineral industry, minerals yearbook chapter, 14331  
 Elton, Raymond C., determination of electron temperature from X-ray continuum radiation emitted from high temperature plasmas, 11681  
 Elutriation, method for determining specific surface of dry chemical fire-extinguishing powders, 11678  
 Elva L. (ship):  
 documentation with full coastwise privileges, hearings, 745  
 Ely, Nev., mining district, distribution of gold, silver, tellurium, and mercury, 9564  
 Elz, Dieter, European Economic Community import demand for oilseeds and oilseed products, 4701  
 EM series, 2211, 10956, 12475, 13979  
 Embassies, *see* Foreign Service.  
 Embolism:  
 cerebral air, basic studies, 12793  
 intermittent venous occlusion, and muscular exercises, possible preventive effects on cardiovascular deconditioning after bed recumbency, study, 8408  
 Embree, Ruth G., Pacific area, PACAF basic bibliographies for base libraries, 10229  
 Embrittlement, *see* Fracture of metals.  
 Emergencies, *see* Disasters.  
 Emergency boards:  
 reports—  
 Long Island Railroad Company, 13966  
 National Railway Labor Conference, 9415  
 Pan American World Airways, Inc., 4724  
 Emergency broadcast system, *see* Warning systems.  
 Emergency evacuation tests of crashed L-1649, 10321  
 Emergency health service, 11732  
 Emergency Planning Office:  
 appropriations, 1968—  
 hearings, 9145, 15147  
 reports, 10600, 15131  
 assistant director, nomination of Endicott Peabody, bearing, 9305  
 director, nomination of Daniel Price, hearings, 17639  
 mobilization programs, bearing, 12185  
 press releases, 3717  
 report concerning forest and grass fires, 10702  
 print as Senate document, report, 10783  
 Emergency services, service of community mental health center, 5429  
 Emerson, J. A., irradiation preservation of fresh-water fish and inland fruits and vegetables, 1784  
 Emerson, K. C., Carriker on Mallophaga, posthumous papers, catalog of forms described as new, and bibliography, 15599  
 Emery, K. O.:  
 Atlantic Continental Shelf and slope of United States, 4889  
 seismic reflection profiles along drill holes on continental margin off Florida, 15311  
 Eminent domain:  
 farm acquired to replace one transferred to agency having right of eminent domain eligible for cropland adjustment program, report, 15087  
 highway relocation assistance study, 16340

# INDEX 1967

## Emission:

air pollution, community, rapid survey technique for estimating, 7062  
resonant, secondary, process reduces in electronic components, 6839  
spectrography determines trace levels of metallic corrosion, 6850  
thermionic scanner popolats work function of emitter surfaces, 1449  
vehicle, control, progress (address), 2836  
*see also* Thermionic emission.

Emission spectra, *see* Spectra.

EMIT (electromagnitoyy izmeteritel'tekheny), *see* Electromagnetic current meter.

## Emittance:

measuring absorptance and emittance by using cyclic incident radiation, 6792  
monoenergetic X-rays from alpha emitting isotopes, generation and use, 4234

Emmerich, W. S., vacuum switchgear, survey, 8440

## Emotions:

man under conditions of space flight, analysis of intonational characteristics of speech as criterion, 6507  
troubled employees, recognizing and supervising, 14871

Empey, LaMar T., alternatives to incarceration, studies in delinquency, 10135

## Emphysema:

cigarette smoking effects, 5424  
pulmonary, rehabilitation manual, 14619  
special report, 15712

Empididae, *see* Flies.

Empire of Ethiopia, *see* Ethiopia.

Empirical equation relating fatigue limit and mean stress, 9878

Employ the Physically Handicapped Week, National, *see* National Employ the Physically Handicapped Week.

Employed mothers, *see* Mothers.

## Employee benefit plans:

code of Federal regulations, 11036  
fringe benefits from State minimum wage laws and orders, 5598  
metropolitan areas, 1965-66, wages and related benefits, 5056, 14284, 16814  
private, coverage, contributions, benefits, 8689  
welfare and pension plans disclosure act, questions and answers, 14278

Employee pensions, *see* Pensions.

Employee Rights Board, establish, report, 15121

## Employee training:

Federal legislative employees, training opportunities, report, 16232

Government employees training act, amend to include officers and employees of Senate and House, hearings, 16431

how to train workers on the job, 5718

on-the-job training, employer's guide under manpower development and training act, 13278

on-the-job training under cold war GI program—

hearings, 10859

law, 16133

report, 10792

Operation Late Start, how on-the-job training gives new hope to older workers, 16791

## Employees:

earnings and hours—

retail trade, 8302, 11332

South and North Central regions, non-metropolitan areas, 15447

South, metropolitan areas, 5071

nursing and personal care homes, number, work experience, etc., statistics, 7098

recording employee injuries, 9714, 16805

troubled, recognizing and supervising, guide, 14871

## Employees—Continued

*see also* Farm labor—Government officials and employees—Railroad employees—also names of departments, etc., where employed.

Employees' Compensation Appeals Board, decisions, July 1, 1965-June 30, 1966, 7920

## Employees Compensation Bureau:

computations of disability compensation, savings attainable through improved control, GAO report, 14156

Federal employees' compensation act, disability compensation payments under amendments, GAO review, 2347

procedures for preventing payment of dual benefits for same disability, etc., GAO review, 12592

prompt adjustment in compensation payments to injured Federal employees from total to partial disability rates, GAO report, 4870

## Employers:

employer-employee relationship in agriculture—

sharecropping arrangements or landlord-tenant agreements under fair labor standards act, guide, 13176

where crops are used for rental payment, 7223

expenditures for supplementary pay for nonproduction employees, 6620

guide to on-the-job training under manpower development and training act, 13278

household workers, social security tax guide, 2401

how to keep time and pay records under fair labor standards act, 8786

job rights of National Guardsmen, reservists and their employers, 14714

records kept under fair labor standards act, 13179

general requirements, 11899

social security, establishment reporting plan, 1604

Virgin Islands, Guam and American Samoa, Federal social security tax guide, 2402

## Employer's liability and workmen's compensation:

administrative organization, and cost of administration, 1358

disability compensation computations, savings attainable through improved control, GAO report, 14156

Federal employees' compensation act—disability compensation payments under amendments, GAO review, 2347

dual benefits for same disability or death, preventing payment, GAO review, 12592

payment to injured employees, prompt adjustment from total to partial disability rates, Employees Compensation Bureau, GAO report, 4870

work injury benefits, 13967

longshoremen's and harbor workers' compensation act, extended, regulations governing administration, 1019, 4726

nonappropriated fund instrumentalities act, regulations for compensation, 1018

publications, price list, 17135

radiation workers, grants for record-keeping system, hearings, 1974

State compensatory provisions for occupational diseases, 8337

State laws, comparison of major provisions with recommended standards, 5046

State workmen's compensation laws, summary, 9696

when injured at work, Federal employees guide, 7921, 15219

Employer's liability and workmen's compensation—Continued  
workmen's compensation payments and costs, 2867

Employment:  
act of 1946—  
amend, hearings, 2133  
amendments of 1965, hearings, 2133  
how well is it achieving its goal?, seminar on manpower policy and program, 5043  
text, etc., 10492

age discrimination, prohibit hearings, 9325

American, impact of imports, procedures to relieve, hearings, 16323

area trends in employment and unemployment, 3039

Army Materiel Command, bulletin, 13305

building communities with new jobs, 2159

census of mineral industries, 1963, industry statistics, 7469

city, 7493, 10381

coal mines, monthly report, 3098

community action, 2166

counselors, interviewing guides in individual appraisal and counselee appraisal patterns related to fields of work, handbook, 7922

disadvantaged young men, they need to learn, can you help Job Corps train them, 7878

EDA program—  
building communities with jobs, 13928  
address, 17708

employment and earnings, and monthly report on labor force (periodical), 3232

employment situation, monthly release, 3239

engineers, scientists, and technicians, current market, 4727

Equal Employment Opportunity Commission reports, clearinghouse service for business newsletters, etc., 12481

expanding job choices through education and training, 9578

farm labor developments, 3264

employment and wage supplement, 3265

Federal—  
employment of women (periodical), 3280  
employment statistics bulletin, 3281  
equal opportunity, 1927  
mentally retarded, 1560  
2d look, progress report, 16083  
monthly report, 3578  
travel expenses of applicants, hearing, 17602  
working for U.S.A., 14869

Forest Service, nonprofessional jobs, guide, 10184

fuel industries, minerals yearbook chapter, 2536

Government employment series, 7493-94, 10381

governmental finances and employment, 1966, chart book, 1881

handicapped—  
employment assistance, Federal and State program, directory, 15664  
unparalleled opportunity (address), 8616A  
workers, challenge of employment barriers, 1968 report theme contest, 11th and 12th grade students, announcement, 15667

homeworkers in industries under fair labor standards act, 15819

is there a job in your future? Job Corps information, 4687

job creating programs, EDA economic development districts, 9380

job redesign for older workers, 10 case studies, 8303

joint, relationship under fair labor standards act, 13178

Employment—Continued  
local law enforcement agencies, Secretary of Labor to collect data, etc., hearings, 16325

major programs providing Federal funds for employment and training, 17416

manpower and employment statistics, 15452

manufacturing, by counties of U.S., 1960, map, 1890

Memphis-Shelby County, Tenn., civil rights report, 14851

mentally-restored applicants, interviewing guide for counselors, 10944

metal and nonmetal industries, minerals yearbook chapter, 8338

military retirees as civilians with Air Force, law, 5697

mineral industries—  
minerals yearbook chapter, 2537  
survey, 8342, 15465

minority group, in Federal Government, 1930

National Park Service, seasonal, 8562

Negro's occupational progress, 16829

Negroes, success, 15223

nonagricultural industries, measurement, 16825

now, about that job, A B C's for veterans, 14715

opportunities—  
Naval Air Systems Command, 3234  
Naval Ordnance Systems Command, 3235  
Naval Weapons Bureau, 3236  
Sport Fisheries and Wildlife Bureau, 14056

Pacific Northwest forest industries, 3774

President's Committee on Employment of the Handicapped, wards and recognition program, 1355

professional, technical and kindred occupations by counties of U.S., 1960, map, 1891

projections 1970, industry, 2508

public, 7494

returning disabled Vietnam veteran (remarks), 18143

safety standards in D.C., amend law—  
hearings, 16320  
report, 16296

scientific, professional, and technical personnel in State governments, 15450

seasonal, range, forestry, surveying, engineering, fire control, information, 2524

self-employed individuals, pension, annuity, etc., income tax, 9596

self-employed people, reporting their income, social security information, 2861

services for veterans, 1020

sheltered, meaning and aims for handicapped people (remarks), 11700

sheltered workshops, pathway to regular employment, 6593

shoe industry, increasing, 2161

State and local government employment and payroll, 3894

statistics, 1909-66, United States, 2496

statistics, 1939-66, States and areas, 14283

students—  
special minimum wages while full time, 7229, 18251

summer jobs and how to find them, 10947

testing procedures, guidelines, 2227

textile jobs of non-whites in North and South Carolina, etc., opportunities, 13994

USSR civilian employment, 1950-75 estimates and projections, 12090

veterans, Veteran's Employment Service will help you start or resume career, here are facts, 15220

where will you go when the go-go's gone?, information for girls, 8797

Work Programs Bureau activities, 17297

# INDEX 1967

- Employment—Continued  
 worker attitudes in job seeking, 1021  
 workers covered by State unemployment insurance laws, 3233  
*see also* Discrimination in employment—  
 Farm labor—Government officials and employees—Handicapped—Labor—  
 Manpower—Women—Work.
- Employment of the Handicapped, President's Committee on, *see* President's Committee on Employment of the Handicapped.
- Employment security activities, *see* Unemployment insurance.
- Employment Security Bureau:  
 BES series, 6199-6200, 12471, 17727  
 internal audits, to correct conditions disclosed, more effective action, GAO report, 4869  
 local offices, directory, 13970  
 MDTA handbook, 15221  
 publications, 6201  
 State employment security agencies, Georgia employment security agency, ensure salary comparability, procedures, need for strengthening, GAO report, 8134
- Employment Service:  
 employment service review, 3237  
 slides and films, 12472  
 statistics (periodical), 3238
- Employment taxes:  
 Federal unemployment taxes, benefits from quarterly collection, Labor and Treasury Depts., GAO review, 8135  
 increase unemployment tax rate, summary of Senate amendments to bill, 2115  
 IRS looseleaf regulations system, 2407, 3527, 6457, 9598
- Emulsified fuel, feasibility of burning in gas turbine engines, 11998
- Enactment of law, procedural steps in legislative process, 13720
- Enamel:  
 coal-tar, synthetic resin primer, 10073  
 copper-acrylic, serves as lubricant for cold drawing of refractory metals, 5140
- Encapsulation (electronics), *see* Electronic equipment.
- Encephalitis, reported incidence of arthropod borne encephalitis of equine in United States, 1965 calendar year, 7255
- Encephalography, *see* Electroencephalography.
- Encephalomyelitis, allergic demyelinating, USSR biochemical and histochemical studies on nerve fiber proteins, 14213
- Encke, AIC 57C, lunar chart, 7323
- Encoders, evolution of satellite PFM encoding systems, 5241  
*see also* Analog-to-digital converters.
- Enders, Lawrence J., aortic insufficiency in flying personnel, 17348
- Endocrines, *see* Endocrinology.
- Endocrinology:  
 Rumanian contribution, 14260  
 Rumanian, new horizons, 14216  
 seasonal changes among endocrine-metabolic indices of men residing in subtropical climate, 7358  
 tumors of endocrine glands, 2841
- Endrin, and carbon tetrachloride, comparison of acute effects on livers of rats, 4252
- Enemy property, interests vested under international claims settlement act, return, hearing, 732
- Energy, *see* Atomic energy—Electricity—  
 Force and energy—Radiant energy.  
 Energy metabolism, *see* Metabolism.  
 Energy resources, *see* Power resources.  
 Energy spectrum, *see* Spectra.  
 Energy storage, solidification in thermal energy storage systems with axisymmetric heat-transfer solutions, analysis, 5246  
 Enforcement of law, *see* Law enforcement.
- Engel, Arnold, osteoarthritis in adults, 5468
- Engel, George T., tin, 2591
- Engelke, W. T.:  
 thermal and mechanical properties of non-degraded and thermally degraded phenolic-carbon composite, 16917  
 thermophysical properties of low-density phenolic-nylon ablation material, 14377
- Engelmann spruce, *see* Spruce.
- Engineered performance standards:  
 machine shop, machine repairs formulas, 17067  
 public works maintenance, electric, electronic handbook, 14567  
 roads, grounds, pest control, handbook, 11625
- Engineering:  
 and science, fact and fiction (address), 243  
 Army aviation maintenance manual, 4218, 7400, 8892, 10282  
 aspects of control system design via direct method of Liapunov, 5165  
 Communist Chinese abstracts, 3120  
 computer-aided teaching of dynamic system behavior, 62  
 computer—  
 education problems, 1321  
 railroad transportation, USSR study, 1173  
 computerized parts list system coordinates engineering releases, parts control, and manufacturing planning, 17929  
 conservation practice standards, SCS national engineering handbook, 13122  
 cotton gin operations, engineering aspects in Midsouth, west Texas, and Far West, 12452  
 course and curriculum improvement projects, 5324  
 defense communications system, installations standards manual, 4668, 16455  
 degrees (1964-65), and enrollments (fall 1965), 13953  
 design handbook series, 1750-51, 10252, 15928  
 East European abstracts, 3222  
 engineering monographs, 2847, 5479, 13103, 17178  
 environmental, research grants, 5463  
 exposé of numerical integration of ordinary differential equation, 1503  
 fatigue failure of aircraft structures, 17062  
 Federal careers, examination announcements, 1924, 5933, 17459  
 geology of Air Force Academy site, Colo., 11179  
 highway safety study, Operation 66, joint engineering-enforcement project report, 1594  
 James Millholland and early railroad engineering, 11602  
 journal of research, National Bureau of Standards, 3460  
 machine for calculations, USSR study, 1214  
 maintainability, research and development of materiel, 103  
 manpower, employ systems engineering and systems analysis to utilize nation's manpower resources, etc., hearings, 4652, 10869  
 observations on MB-5 aircraft fire-fighting and rescue vehicle, 9939  
 oceanography and engineering (address), 12116  
 opportunities—  
 bridge to your success in Public Roads Bureau training program, 18192  
 college students in Public Road Bureau, 1593  
 PACAF basic bibliography, 13266  
 Parkfield, Calif., earthquake, report, 1934  
 power engineering trends in Latvian SSR, 1235  
 prospective manpower situation for science and engineering staff in universities and colleges, 14563

Engineering—Continued

public health engineering abstracts, 3781  
 publications, price list, 17134  
 quarterly engineering seismology bulletin, 3793  
 Reclamation Bureau, Engineering and Research Center in Denver, 11768  
 refractory compounds and their role in engineering, USSR study, 4960  
 research progress, Reclamation Bureau, annual report, 11775  
 rewarding career with United States Post Office Department, 7042  
 seasonal employment information, 2524  
 sciences, research objectives, 1967, OAR, 7336  
 SCS national engineering handbook, 10087, 14652  
 Soviet patents, 9628, 9648  
 spacecraft cabin atmosphere selection, criteria, 16912  
 submarine engineering administration, training aid, 11664  
 Syncom report, 11556  
 technician, examination announcement, 1910  
 trainees for vacation work-study programs, examination announcement, 17460  
 USSR abstracts, 4029  
*see also* Civil engineering—Electric engineering—Environmental engineering—Hydraulic engineering—Marine engineering—Mechanical engineering—Methods engineering—Naval engineering—Nuclear engineering—Radio engineering—Solar engineering—Value engineering.  
 Engineering aids:  
 examination announcement, 7545  
 3 & 2, Navy training course, 2775  
 Engineering draftsmen, *see* Draftsmen.  
 Engineering equipment:  
 Communist Chinese abstracts, 3120  
 East European abstracts, 3222  
 USSR abstracts, 4029  
 Engineering Laboratory, TVA, research, in fields of civil engineering, mechanical engineering, instrumentation, 17260  
 Engineering psychology, *see* Human engineering.  
 Engineering technicians, examination announcement, 13445  
 Engineers:  
 and their education in changing society (remarks), 17402  
 architect-engineer fees, Government-wide administration of certain statutory and regulatory requirements, GAO review, 9548, 16668  
 Belorussian, more needed to train specialists in microelectronics and bionics, 1271  
 brain drain into United States, staff study, 15029  
 civilian career opportunities on engineering team of Coast Guard, not for the ordinary engineer, 218  
 computer language, attempts to free from need to master, USSR study, 5020  
 construction, contracting services for AEC work, guide, 13350  
 current employment market, 4727  
 design, changes in Patent Office and patent procedures (address), 10020  
 employment in industrial research, etc., 1965, preliminary report, 5325  
 engineers from abroad, 1962-64, as immigrants, educational exchange students, etc., 9966  
 examination announcement, amd., 10410  
 improving calibre of engineering personnel, USSR study, 16782  
 non-research positions only, examination announcement, amd., 205  
 nuclear defense design courses, announcement, 16053  
 pay, national, survey, 2507

Engineers—Continued

Soviet, reply to questions on role of their specialties in scientific and economic development, 6561  
 study brain disease effects on recognition capacities for use in computer development, USSR study, 6488  
 women, why not be an engineer?, 11913  
*see also* Bridge engineers—Civil engineers—Corrosion engineers—Electronic engineers—Flight engineers—Highway engineers—Metallurgical engineers.  
 Engineers Corps, Army:  
 amphibious units, field manual, 4204  
 construction bids, quantity estimates prepared for solicitation, GAO review, 14152  
 dredging contracts, policies and procedures, GAO review, 14154  
 flood control, rivers and harbors, new projects and monetary authorizations—law, 493  
 report, 698  
 law regarding deposition of industrial waste solids into navigable waters, need for improving procedures to ensure compliance, GAO report, 4868  
 manuals, 2211, 10956, 12475, 13979  
 oil interests, acquiring, procedures to preclude more than just compensation, GAO report, 16670  
 planned Federal contribution toward cost of State-constructed Del Valle Dam and Reservoir, Alameda County, Calif., GAO review, 6384  
 press releases, 3718  
 publications available for purchase, 13981  
 publications list, 13978  
 regulations, ER series, 6206, 15226, 17735  
 report 1966, civil work activities—departmental edition, 16518  
 document edition, 16151  
 safety, general requirements, manual, 10956  
 southeastern Federal power program financial statements, 1966, GAO examination, 15296  
 technical services, in war against Japan, 5096  
 your work in Corps of Engineers, pamphlet for civilian employees, 1031  
 Engineers Corps Board of Contract Appeals, digest of decisions, 7926  
 Engineer's digest (periodical), 3240, 17468  
 Engines:  
 accessories, Federal item identification guides for supply cataloging, supplements, 3285  
 engines and components, Federal item identification guides for supply cataloging, supplements, 3285  
 Internal combustion engines—current industrial reports, 5866, 8940  
 operation and maintenance, 13017  
*see also* Rockets—Turbines.  
 Engines (aircraft):  
 aircraft engine oil components, identification, use of thin-layer chromatography (TLC), 11674  
 airworthiness standards, Federal aviation regulations, 7947, 10989  
 Army aviation maintenance engineering manual, 10282  
 current industrial reports, 3169, 13389  
 cylinder pressure variation, indicator system provides complete data, 5200  
 jet, static calibration of ejector unit for simulation in small-scale wind-tunnel models, 6899  
 M-1 engine components, alloy 718 application, 12862  
 turbojet, having choked inlet flow, performance measurement, inlet flow characteristics, and radiated noise, 11499

Engines (aircraft)—Continued  
 type certificate data sheets and specification, 3017  
 see also Rockets.

England, see Great Britain.

English Channel, lights and fog signals, list, 5384, 11644

English language:  
 English and Government, Federal textbook on citizenship, 14190, 17844  
 instruction, financial assistance guidelines under NDEA, 13956  
 national defense education act—  
   institutes for advanced study, summer 1967, handbook for directors, 1003  
   loans to private nonprofit elementary and secondary schools for equipment and materials, 1007  
   requirement of immigration and nationality act, change exemption, hearing, 7751  
   teaching forum, facts and ideas for teacher of English as foreign language, 5577

Engvall, John L., engineering exposé of numerical integration of ordinary differential equations, 1503.

Enlisted Evaluation System, 17381

Enlisted men, see Coast Guard—Navy.

Enlisted ratings qualifications manual, 14876

Ennis, Philip H., criminal victimization in U.S., 13059

Enolase, substrate protection mechanism against ionizing radiation, studies, 14774

Enriching community life, Federal assistance program for neighborhood facilities, 2380

Enrico Fermi reactor, see Reactors (atomic).

Enrollment, see Colleges and universities—Schools.

Enterococci, enteric microbial flora of man in oxygen-hellum atmosphere, 79

Enterprise statistics, 1963, preliminary reports, 3241

Entocythere, see Crustaceans.

Entocytheridae, see Crustaceans.

Entomacrodus, genus, circumtropical shorefish, revision, 11604

Entomologists, examination announcement, amendment, 8985

Entomology:  
 All-Union Entomological Society of Academy of Sciences, USSR, activities, report, 2471  
 Czechoslovakia, research, main centers and principal achievements, 2472  
 4-H club leaders' guide, 4134

Entropy:  
 absolute entropies prediction from gas chromatographic retention data, 18111  
 relationship of entropy and quantity of information, USSR study, 14247

Entry into atmosphere, see Atmospheric entry.

Environment:  
 accident, low-level radioactive waste containers, investigation, 8909  
 achievement of thermal balance and its maintenance during environmental stress, 1822  
 aircraft, respiration rate transducers, development, 18044  
 aqueous, titanium, etc., alloys, crack propagation, delayed failure, and residual static strength, 6872  
 closed system, trace contaminants contained in samples at 258 mm. Hg, analysis, 10234  
 cold regions science and engineering, 1756, 14793-794  
 control—  
   environmental aspects of hospital, safety fundamentals, 15690  
   health protection, target of Bureau of Disease Prevention and Environmental Control, 11734  
   deuterium, cytology advanced by studying effects, 16881

Environment—Continued  
 environmental characteristics of tunnels in South Vietnam, 15229  
 environmental sciences, research objectives, 1967, OAR, 7336  
 environmental test methods, military standard, 16469  
 fecal coliforms, sanitary significance, 6343  
 health series—  
   air pollution, 1572, 5428, 7062-63  
   Arctic health, 14623  
   radiological health, 7064-65, 8630, 10047, 11725, 15681-682, 17140  
   urban and industrial health, 15683-684  
 heat exchanger tubes supported in high vibration environment, 5220  
 low pressure, indirect calorimetry, 11957  
 meteoroid, near-earth, 1512  
 natural environment radioactivity from radon 22, 17140  
 natural, of satellite in asynchronous circular orbit, 15883  
 near-space environment, 11575  
 oxygen at 210 mm. Hg absolute, effects on rats, 1740  
 Pegasus thermal design, 1477  
 evaluation, 2687  
 phenolic nylon, effect on ablative performance, 9889  
 pure oxygen, low-pressure, rats born and raised in, energy metabolism, 5709  
 radiation surveillance, 10048  
 science and improving our environment, 14738  
 sealed, microcontaminant studies, infrared spectrophotometry utilization, 8869  
 simulation, effectiveness of testing for spacecraft, 11549  
 space environments—  
   biological effects of protons, estimate, 4176  
   microbially controlled, NASA standards for clean rooms and work stations, 15522  
   simulated, effects on thermal radiation characteristics of black coatings, 16980  
   simulated, explosive cutting in, 8466  
   trace constituents of closed ecological system, delineation program, 7369  
   strategy for livable environment, 12622  
   surface mining and our environment, special report, 14201  
   survey in El Real, Darien Province, Panama, 8895  
 testing, contaminant producing materials from integrated life support system, 11416  
 thermal, and temperature history of lunar orbiting space vehicles, computer program to determine, 16951  
 trapped radiation environment models, 8437, 16929  
 vacuum—  
   improved rolling element bearings, 6835  
   screw-seal performance, 6885  
 Venus and Mars, advanced manned planetary mission programs, nominal natural environment, establish numerical values, 8436

Environmental control systems, see Control systems.

Environmental Data Service, ESSA technical memorandum, EDSTM series, 6219-22

Environmental engineering, space-cabin atmospheres, engineering trade-offs of 1-vs. 2-gas systems, literature review, 12879

Environmental Engineering and Food Protection Division, research grants, 5463

Environmental health, see Health.

Environmental Research Institutes, see Institutes for Environmental Research.

Environmental safety, see Safety of life.



Environmental Science Services Administration:  
Boulder, Colo., facilities, general information, 16097  
deputy administrator, nomination of Werner A. Baum, hearing, 6095  
ESSA world, official employee publication, 3243  
group life insurance program, annual report, 8778  
Institute for Oceanography, programs and mission, 16537  
members serving with Air Force, provide same status as those serving in Army and Navy—  
law, 380  
report, 888  
monograph, 4747  
press releases, 3719  
professional papers, 15230  
program decisions (address), 7937  
research for successful exploitation of sea's resources, 10970  
satellite programs, 1033  
technical memorandums, 6219-22, 7935, 9427-29, 10964-966, 12479, 15231, 16532  
technical reports, 2223-25, 4748, 6223-25, 9430, 10967-968, 16533  
Enz, Richard W., water supply outlook and Federal-State-private cooperative snow surveys for Arizona, 4044  
Enzler, Jared, revised indexes of manufacturing capacity and capacity utilization, 14045  
Enzymes:  
clearing and staining small vertebrates, 11605  
selected blood response, man in oxygen-helium atmosphere, 85  
see also Dehydrogenase.  
Ephemerides:  
American ephemeris and nautical almanac, 2768, 6995  
ephemeris of sun, Polaris, and other selected stars, 17902  
Epicampea, see Mühlenbergia.  
Epicormic branching on 8 species of Appalachian hardwoods, 8078  
Epidemics, process concept, defining, USSR study, 9633  
Epidemiology:  
cerebrovascular disease, workshop papers, 7084  
Hygiene and Epidemiology Institute, Bulgaria, organization and tasks, 6497  
New Jersey radium cases, follow-up, progress report, 10301  
reports from world press, 3242  
stroke, study, 11726  
Epilepsy:  
NYC enrollees, project sponsors guide to placement, 2488  
progress in research, 18182  
Epoxy resins, see Resins.  
Epperson, W. L., man in oxygen-helium environment, heat exchange, 81  
Epstein, Anita G., Upper Silurian and Lower Devonian stratigraphy of northeastern Pennsylvania, New Jersey, and southeasternmost New York, 11167  
Epstein, Lenore A., aged population of United States, 1963 social security survey, 13120  
Equal employment opportunity, see Discrimination in employment.  
Equal Employment Opportunity Commission:  
annual digest of legal interpretations, 12480  
annual report, 9064  
appropriations, 1967, law, 501  
appropriations, 1968—  
hearings, 10632, 16390  
reports, 10616, 16372

Equal Employment Opportunity Commission—Continued  
authority to issue enforceable cease-and-desist orders, message from the President, 12199  
EEOC reports, clearinghouse service for business newsletters, etc., 12481  
legal interpretations issued or adopted by, digest, 3205  
member, nomination of—  
Alexander, Clifford L., Jr., 17667  
Shulman, Stephen N., hearing, 9327  
Ximenes, Vincente T., hearing, 10863  
newsletter, 3633  
press releases, 3720  
strengthen enforcement powers, hearings, 13877  
Equal pay for equal work, see Women.  
Equalant III, data report, tropical Atlantic Ocean, 8569  
Equations:  
asymptotic behavior of solutions of boundary problems for quasilinear differential equations, 11573  
balance equation, use in tropics, 9429  
canonical, determination of regularity of automata, 6581  
class of  $n^{\text{th}}$  order nonlinear differential, Lyapunov functions, 5180  
computer program VARI-QUIR III provides solution of steady-state, multi-group, 2-dimensional neutron diffusion equations, 17927  
depletion, one-dimensional spatial calculations for VULCAN (digital computer program), 16990  
differential—  
axisymmetric vibration of paraboloidal shells of revolution, 17946  
multistep methods, stability theory, 11523  
numerical integration, engineering exposed, 1503  
numerical solutions stability, 5243  
ordinary, numerical integration by new Lie series method, 9877  
solved by computer program simulating physical systems, 15526  
empirical equation relating fatigue limit and mean stress, 9878  
for application of wind-tunnel wall corrections to pitching moments caused by tail of aircraft model, 2715  
integral, method in plane elasticity, 9819  
integration of control equations and problem of small time constants, 8505  
linear, algebraic, simultaneous, computer subroutine ISUDS accurately solves large system, 17926  
linear differential, theory, asymptotic methods, 12976  
Lyapunov functions from auxiliary exact differential equations, 11421  
modified quasilinearization concept for solving nonlinear 2-point boundary value problem, 12941  
multivariate regression for predicting volumes of 4 Hawaii hardwoods, 8084  
nonlinear—  
incremental procedure solution applicable to plates and shells, 2727  
magnitude of nonlinearities in collisionless magnetoplasma waves, 5253  
problem of transient cooling of opaque sphere in space, theoretical solution, 14458  
regression and principle of least squares, evaluating constants and calculating variances and covariances, 6681  
vibration and buckling of prestressed shells of revolution, 6878  
ordinary differential, finite difference methods, for numerical integration, operational unification, 11559  
plasma stability and Bohr-van Leeuwen theorem, 8495



- Equations—Continued  
 policy-capturing model, applied to selecting a harem, 15893  
 provide tabular information on effects of uniform and variable loads on thin, flat, circular plates, 8399  
 Rammsonde, test for snow hardness, reevaluation, 1755  
 Runge-Kutta, approximate solutions, 15563  
 Schrödinger, numerical solutions, accurate and stable, 17090  
 simplified prediction, for NRL satellite position display, 5349  
 space vehicle flight control systems, analysis and design—  
   elastic body, 15503  
   trajectories, 12872  
 stand volume equations for shortleaf pine in Missouri, 14094  
 study compares methods for numerical solution of ordinary differential equations, 1463  
 thermodynamic properties of fluids, including 2-phase region, calculating from empirical equation of state, 9776  
 thermoelastic and viscoelastic cylindrical sandwich shells, 1436  
 transport, radiant energy in nongray, non-scattering gases, approximation, 11544  
 van der Waals fluid in 2-phase region, thermodynamic properties, 11379  
 vector integral equations, applications to terrain, 7935  
*see also Mathematics.*
- Equations of motion:  
 rigid-body motion extracted from total motion of flexible body, 9845  
 spacecraft arbitrary rotating motion, approximate solutions, 18054  
 transient blade motions of rotor with flapping and lead-lag degrees of freedom, numerical method for studying, 17010
- Equations of state:  
 fluids, thermodynamic properties calculated from empirical equation of state, 9776  
 helium-nitrogen mixtures, 8374
- Equatorial Guinea, *see* Fernando Pó—Río Muni.
- Equilibrium:  
 analysis and its application to attitude control systems, 14499  
 carbonate-bicarbonate, research, USSR study, 1250  
 chemical equilibria in complex systems, computer program determines, 6828  
 composition of air, equations for rapid machine computation, and derivatives for flow-field calculations, 16973  
 dissociating air, stagnation-point boundary layer with suction and injection, 8499  
 thermochemical, isentropic flow solutions for reacting gas mixtures, 16979  
 thermodynamic, computer program for determining chemical composition of physical system, 9825E  
 thermodynamic in prebiological atmospheres of C, H, O, N, P, S and Cl, 11426  
 thermodynamic properties of high-temperature nitrogen seeded with alkali-metal vapor mixture, 16974
- Equilibrium (physiology):  
 function of primates, effects of pulsed ionizing radiation, 7354
- Equine encephalitis, *see* Encephalitis.
- Equine infectious anemia, *see* Anemia.
- Equine piroplasmiasis, *see* Piroplasmiasis.
- Equipment operators, and repairmen, examination announcement, 12102
- Equipment specialists, examination announcements, 1911, 14854
- Equipments, *see* Aeronautical supplies—Air purification equipment—Dental instruments and apparatus—Handling equipment—Hospital apparatus and supplies—Medical instruments and apparatus—Military supplies—Veterinary instruments and apparatus.
- Equity:  
 corporate equity ownership of securities under securities exchange act of 1934, full disclosure—  
   hearings, 13846  
   report, 15133  
 in pursuit of equity, who serves when not all serve?, report of National Advisory Commission on Selective Service, 7045  
 Equivalent circuit for field effect transistor established for computer simulation, 6844  
 Erdman, Lewis W., legume inoculation, what it is, what it does, 14739  
 Erdmann, Gayne G.:  
   chemical weed control in 2-year-old walnut planting, 14098  
   promising conifers for western Iowa, 8107  
 Erdogan, Fazil, crack propagation theories, 17939  
 Erenyi, Gizella, relief, 12223  
 Ergodic properties of tracer system, 13337  
 Ergometers, *see* Dynamometers.
- ERIC, *see* Educational Research Information Center.
- Erickson, Edwin E., area handbook for Ecuador, 10268
- Erickson, Elmer O., relief, 607, 7627
- Erie Canal, 5-cent commemorative postage stamp (poster), 11692
- Erie, Lake:  
 and its tributaries, pollution, 3d meeting, proceedings, 6344  
 coast, Cattaraugus Creek Harbor, engineer report—  
   departmental edition, 10950  
   document edition, 10505  
 coast, Conneaut Harbor, engineer report—  
   departmental edition, 2208  
   document edition, 2000  
 coast, Elk Creek Harbor, engineer report—  
   departmental edition, 4731  
   document edition, 4473  
 pollution, conference, proceedings, 16609  
 small craft, gale and whole gale warning facilities chart, 14723
- Erlanson, E. P., auxiliary power systems for lunar roving vehicle, 16891
- Erosion, *see* Soil erosion.
- Erosion control, *see* Soil erosion.
- Error-correcting codes, noise-rejection coding of digital teletype communications in complex automatic hydrometeorological telemetering systems, USSR study, 8275
- Errors:  
 analysis of celestial-inertial navigation for low-thrust interplanetary vehicles, 8424  
 atmospheric, in microwave azimuth measurements, experimental study, 2224  
 data compression with error-control coding for space telemetry, 11558  
 digital system detects binary code patterns containing errors, 2647  
 gain measurements in standard electromagnetic horns, 9944  
 gas laser, canceled with neon isotopes, 5226  
 output pulse timing, modified univibrator compensates, 12834  
 rounding bounds by perturbation-condition analysis, 16978  
 systematic, in ultrasonic propagation parameter measurements, iterative reflection-interferometry method evaluated, 9983
- ERS, *see* Economics Research Service.
- ERS-foreign series, 990-993, 2174, 4700-1, 7886-87, 9393-94, 10924-926, 12455-456, 13949, 16491-494, 17713

ERS series, 987-989, 2172-73, 4697-99, 6173, 7883-85, 9390-92, 10919-923, 12454, 13944-948, 17712  
 Erythrocytes, *see* Blood.  
 Erzberger, Heinz, Kalman filtering application to error correction of inertial navigators, 6904  
 ESC series, 16568-569  
 Escape systems:  
   Apollo spacecraft, pitch control motor for launch escape system, qualification evaluation, 15560  
   emergency system protects personnel from explosion and fire, 6796  
   Gemini, development, etc., 12945  
 Escapees, *see* Refugees.  
 Escherichia coli:  
   comparison of differential agar with Sellers citrate-mannitol-agar, 10233  
   potassium transport mutant phosphorus metabolism abnormalities, 10235  
 ESD, *see* Electronic Systems Division.  
 ESEA (elementary and secondary education act) *see* Elementary education—Secondary education.  
 Eskimos:  
   Alaska, general information, 2389  
   arts and crafts, sources, list—individuals, 12640  
   organizations, 12639  
   dental health program, 11724  
   ethnoarcheology of Crow Village, Alaska—  
     departmental edition, 9048  
     document edition, 9048  
 Eslyn, Wallace E., relation of visual estimates of decay to specific gravity loss in stored cottonwood and willow, 2299  
 Esocidae, *see* Fish and fisheries.  
 Esophoria, acuity and phoria among submariners, longitudinal study, 12791  
 Espantoso, Yong Ok, relief, 16184, 17531  
 Espenshade, G. H., geology and petrology of Greenville quadrangle, Piscataquis and Somerset Counties, Maine, 16654  
 Espinosa, Mario V. Machado, *see* Machado Espinosa, Mario V.  
 Espionage:  
   laws—  
     compilation, 1987  
     military security, 6934  
 ESSA, *see* Environmental Science Services Administration.  
 ESSA 3 (meteorological satellite), *see* Satellites.  
 Essential services of community mental health center, 5429-30, 11727-728  
 Establishment reporting plan, statement for use of employer, 1604  
 Estados Unidos de America Indicaciones utiles sobre la aduana para los no domiciliados en los Estados Unidos, 13906  
 Estate tax, *see* Inheritance and transfer tax.  
 Estates, *see* Decedents' estates.  
 Estep, Phyllis M., beginning for rural disadvantaged in Louisiana, Project Seesaw, 8284  
 Esters:  
   lubricants, temperature limitations in ball bearings, 15576  
   pinacolic, of methylfluorophosphine acid, clinical observations of individuals contaminated, Bulgarian study, 1230  
   polyester films, adhesive for bonding, cures at room temperature, etc., 2631  
   transesterification of phosphites and phosphinites by monohydric and polyhydric alcohols and phenols, USSR study, 1210  
 Estes, Jonnie M., two-constant equation for helium from 30° to 1,475°K, 14357  
 Estevez, Mario O. Santos-, *see* Santos-Estevez, Mario O.  
 Estuaries:  
   Delaware, comprehensive study, summary of preliminary report and findings, 2272

Estuaries—Continued  
   preserve, develop, etc., for sport, recreation, etc.—  
     hearings, 4635, 9164  
     report, 695  
 Etchings of Canaletto, 10080  
 Ethanes, shipments, 15484  
 Ethers, lubricants, temperature limitations in ball bearings, 15576  
 Ethics:  
   medical ethics and research, symposium, 18247  
   medico-moral ethics for hospital ministry, 15817  
 Ethiopia:  
   background notes, 8706  
   capsule facts for Armed Forces, 11974  
   economy, basic data, 7580  
   establishing business in, 13465  
   housing, basic information, 6417  
   labor conditions, 1373  
   labor law and practice, 5054  
   mineral industry, minerals yearbook chapter, 6649  
   parcel post, agreement, 17239  
 Ethnoarcheology of Crow Village, Alaska:  
   departmental edition, 8872  
   document edition, 9048  
 Ethnography, *see* Ethnology.  
 Ethnology:  
   ethnographic study series, minority groups in Republic of Vietnam, 5735  
   manpower potential in our ethnic groups, seminar proceedings, 17885  
   Soviet, ethnography translations, 8261  
   *see also* Ethnopharmacology.  
 Ethnopharmacology, search for psychoactive drugs, symposium, proceedings, 17173  
 Ethology, *see* Character.  
 Ethylene dibromide, use for fumigation of Mexican fruits, manual, 13203  
 Etiology, viruses of human leukemias, recent research, Rumanian studies, 6549  
 Eucalyptus, blackbutt, Hawaiian grown, physical and mechanical properties, 2328  
 Euchromius, *see* Moths.  
 Euclides P, AIC 76 A, lunar chart, 7328  
 Eudoxus, LAC 26, lunar chart, 13263  
 Eufaula National Wildlife Refuge, general information, 4806  
 Eugene II (vessel):  
   documentation with coastwise privileges, report, 10761  
 Eulogies, *see* Memorial services.  
 Euparixia, *see* Beetles.  
 Euphllomedes arostrata, new myodocopid ostracod from Maldives Islands, Indian Ocean, 6954  
 Euphllomedes multichelata, *see* Crustaceans.  
 Eureka to Point Conception, Calif., coastal warning facilities chart, 11901  
 Europe:  
   agricultural situation—  
     midyear review, 16491  
     1966 review and 1967 outlook, 9394  
   civil divisions, geographic report, 11827  
   Eastern—  
     agriculture, forestry, and food industries, translations, 3954  
     building bridges to (addresses), 10099  
     doing business with Eastern European countries (addresses), 2416  
     East of the Elbe, study mission report, 6104  
     economic organization and management, translations, 3959  
     electronic and precision equipment industries, translations, 3955  
     geodesy and cartography, new developments, Hungarian study, 15358  
     hydrometeorological and meteorological services, conference of directors, USSR study, 1179  
     machinery industries, translations, 3956  
     materials industries, translations, 3957  
     military information translations, 3556

# INDEX 1967

## Europe—Continued

- Eastern—Continued
  - political translations, 3691
  - scientific abstracts, 3217-24
  - selected functional bibliography, 15763
  - service industries, translations, 3958
  - sociological translations, 3882
  - United States trade, Communist areas, 16108
- European and British Commonwealth series, 1626, 10099
- health information for travel in, 13079
- markets, quality evaluation of U.S.-grown citrus fruit, 5616
- mineral industry, regional review, miner's yearbook chapter, 15473
- our changing partnership, special study mission, report, 6024
- propagation at 5GHz, comparison of predictions and measurements for various types of paths, 6223
- Russia's Europe, rebellion, fact and fiction, print additional copies, report, 12373
- study mission, 1966, report, 7744
- tide tables, 12120
- unification of East and West for foundation of mutual trust (remarks), 1626
- United States-European relations, study and reevaluation, hearings, 13863
- United States troop deployment to, express sense of Senate, hearings, 13863
- west coast, lights and fog signals, list, changes, 1538, 5333, 11643, 18100
- Western—
  - gas, characteristics and distribution, 16102
  - infant and perinatal mortality in 6 countries, comparison with U.S., 8659
  - manpower utilization at military installations, report, 9133
  - market for gas equipment, 16102
  - market profiles, 13462
  - radioisotopes as power sources, 15416
  - strategic importance, 5614
- European chafers, *see* Beetles.
- European corn borer, how to control, 10168
- European Economic Community:
  - agricultural trade, 1959-64, statistical reference, 2174
- Common Market, grain statistics, compilation, 16642
- grain-livestock economy, 1951-63, historical review, 2176
- growth in demand for feed grains, projection to 1970 and 1975 in relation to consumption, 13949
- import demand for oilseeds and oilseed products, summary, 4701
- European Migration, Intergovernmental Committee for, *see* Intergovernmental Committee for European Migration.
- European Space Research Organization, satellite telemetry/telecommand station near Fairbanks, Alaska, agreement, 11836
- European War, 1914-18:
  - battle art, exhibition, 8880
  - Marine Corps, annotated bibliography, 14310
  - veterans, *see* Veterans.
- Euryhaline copepod genus *Eurytemora* in fresh and brackish waters of Cape Thompson region, Chukchi Sea, Alaska, 6943
- Eurytemora*, euryhaline copepod genus, Cape Thompson region, Alaska, 6943
- Eurytoma*, *see* Chalcid flies.
- Eusceptis Hübner*, American genus of noctuid moths, 5306
- Eutectics, vacuum chamber remotely sealed by eutectic metal, 11390
- Euxenite, metal values, extraction by fusion with ammonium sulfate or ammonium bisulfate, 6685

## Evacuation:

- aeromedical—
  - patients' views of patient care, 17350
  - physician's role, 4173
- emergency test of crashed L-1649, 10321
- Evaluating winds aloft by simplified field technique, 4838
- Evaluation charts on delay in administrative proceedings, 4647
- Evaluation of Vocational Potential Committee, Institute of Rehabilitation Services, report, 11892
- Evans, Dallas E., Venus and Mars nominal natural environment for advanced manned planetary mission programs, 8436
- Evans, Joanne M., relief, 13623
- Evans, Walter F.:
  - housing in Ghana, 6418
  - housing in Liberia, 6421
- Evansville, Ind., population, special census, 8954
- Evaporant feed device facilitates flash vapor deposition process in vacuum, 16955
- Evaporated milk, *see* Milk.
- Evaporation:
  - assessment in nucleate boiling, 9907
  - fluid-bed fluoride volatility process recovers uranium from spent uranium alloy fuels, 9793
  - overflow system for standard Weather Bureau evaporation pan, 2318
  - rates, of carbide cathodes of uranium, zirconium, and solid solutions investigated, 6532
  - reservoirs, reduction, effects of monolayers on insects, etc., 7102
  - Salton Sea, techniques used to measure, 9572
  - studies (series), 9572
  - water from soil, effect of sample size and environmental conditions, 10
- Evaporators:
  - horizontal spray film, research and development, 6440
  - marine, thermal distillation of sea water, fundamentals of theory, 17390
- Evapotranspiration:
  - estimating potential from climatological data in arid and subhumid environments, 17831
  - studies (series), 6397
- Evensen, David A., nonlinear flexural vibrations of thin-walled circular cylinders, 14482
- Evenson, R. E., hydrologic inventory of Lompoc subarea, Santa Ynez River basin, Santa Barbara County, Calif., 1117
- Everett, Floyd D., domestic reserves and potential sources of ores containing copper, lead, zinc, and associated metals, 8340
- Everett, Wash., area wage survey, 6609
- Everhart, Philip E., boundary-layer transition on cooled 7.5° total-angle cone at Mach 10, 18021
- Every girl needs chance to become somebody, 4686
- Evidence:
  - National Advisory Commission on Civil Disorders investigations, compulsory testimony and production of evidence by witnesses summoned, law, 13541
  - permit appeal by U.S. from orders for return of seized property and to suppress evidence, report, 14990
  - refusal to testify, compelling of testimony and granting immunity in certain crimes, amend U.S. code—
    - hearings, 12306
    - report, 12377
  - testimony by Federal Aviation Agency employees and production of records in legal proceedings, FAA regulations, 11004-5
- Even, Victor H., Federal probation, journal of correctional philosophy and practice, 3309

**Evolution:**  
 Labidocera jollae group, etc., characteristics, 8544  
 rodent ethology, with emphasis on evolution of social behavior, comparative study, 15603

**Examinations:**  
 cybernetic testing, 8864  
 Russian 10-year school, final examinations, 1002  
*see also* Civil service—also type or subjects of examinations.

**Examiners, see** Budget examiners—Hearing examiners—Transportation tariff examiners.

**Excavating machinery, equipment, Federal item identification guides for supply cataloging, supplements, 3285**  
 Excellence in design, 7894  
 Excess property, *see* Surplus property.

**Exchanges (international), see** International exchanges.

**Excise taxes:**  
 Federal excise tax data, 19687  
 interest equalization tax on foreign securities, extend act—  
   digest of testimony and statements, 9176  
   hearings, 6047  
   legislative histories of P.L. 90-59 and P.L. 89-243, 15052  
 IRS looseleaf regulations system, 1145, 3528, 4917, 8219, 11222, 15334  
 postpone certain reductions—  
   hearings, 17614  
   message from the President, 16154  
*see also* names of items taxed.

**Excitation:**  
 local and irradiating, photodiffusion in nerve and muscle cells under effect of, USSR study, 14259  
 longitudinal, response of liquid propellant multistage launch vehicle, 11522  
 maximum response of simple beams to random excitation, 14381  
 vital staining of muscle tissue, USSR study, 14255

**Executions, see** Capital punishment.

**Executive departments, see** Government offices—Government supplies.

**Executive inventory, questions and answers for executives, 10419**

**Executive Manpower Bureau, pamphlet, 10419**

**Executive Office of the President:**  
 appropriations, 1967, supplemental, hearings, 2040  
 appropriations, 1968—  
   hearings, 6027, 10806  
   law, 13529  
   reports, 9097, 10791, 13658

**Executive orders, see** subjects.

**Executive Papers, Joint Committee on Disposition of, reports, 705, 7695, 9102, 10553, 10577, 12260, 13628, 13649, 13677, 14958, 16241**

**Executives:**  
 definition under fair labor standards act, 1665  
 development programs in public service, university-sponsored, 2193  
 opportunity knocks at executive suite (remarks), 17044  
 selection and development program, IRS, 1141, 9595  
*see also* Service Corps of Retired Executives.

**Exemplary Rehabilitation Certificates:**  
 award to individuals discharged from Armed Forces under conditions other than honorable, etc., authorize, amend U.S. Code—  
   law, 404  
   reports, 626, 908

**Exercise:**  
 maximum exercise tolerance, ergometer, biomedical monitoring during dynamic stress testing, 7361  
 muscular, and intermittent venous occlusion, possible preventive effects on cardiovascular deconditioning after bed recumbency, study, 8408  
 physical exertion, effect on human organism, USSR study, 12689

**Exfoliative cytology, see** Cytology.

**Exhaust nozzles, see** Nozzles.

**Exhaust plumes, surface heating rates and pressures resulting from hot exhaust gases, 6795**

**Exhibitions:**  
 growth of United States, 1640-1851, History and Technology Museum, Smithsonian Institution, 18203  
 Smithsonian Institution, Dürer and his time, catalogue and notes, 10079  
 U.S. commercial, how to photograph, 7566  
*see also* subject.

**Exhibits, Federal exploration of American West, 8516**

**Eximbank, see** Export-Import Bank of Washington.

**Exira, Iowa:**  
 Nishnabotna River in vicinity, engineer report—  
   departmental edition, 13980  
   document edition, 13556

**Expansion (thermal):**  
 glass formulation, with high coefficient of thermal expansion, 8400  
 thermodynamic properties related to expansion of 2-component gas, 11449

**Expansion plugs, see** Plugs.

**Expeditions, Antarctic, see** Antarctic regions.

**Expenditures:**  
 consumer expenditures and income, 1960-61, tables—  
   rural farm, 2522  
   rural nonfarm areas, 2493  
   urban, 2492  
   urban and rural, 2494  
 Education and Labor Committee, House, investigation—  
   hearings, 4544  
   report, 4517  
 nursing in small health agencies, procedures using work units, 5437  
 residential properties, additions, alterations, etc., 5850  
*see also* names of departments etc.—also subject for which expenditures are made.

**Expenditures of United States Government:**  
 combined statement, 5611  
 monthly statement, 3580

**Experimental medicine, see** Medicine.

**Experimental scaling study of fluid amplifier elements, 9850**

**Experiments and experimentation:**  
 design in Army research, development and testing, conference proceedings, 96  
 designs of experiments as telescoping sequences of blocks for optimum seeking (as alloy development), 14490  
 radioisotope experiments in high school biology, bibliography, 5797  
 repeated measurements on experimental units in 2-way classification, 7348  
 sensitivity experiments, computer program simulates, 11439

**Exploding wires, bridge device, pulse technique provides more accurate checkout, 2672**

**Exploration of Sea, International Council, see** International Council for Exploration of Sea.

**Explorations:**  
 American West before 1880, exhibits of maps, surveys, etc., 8516

## Explorations—Continued

and use of outer space, including moon and other celestial bodies, treaty on principles governing activities of States, analysis and background data, 7791

ocean potential, USSR study, 1165

see also Outer space.

Explorer, see Satellites.

Explosion puffed dehydrated potatoes, estimated cost of commercial production, 8808

## Explosions:

effect on snow structures, 99

emergency escape system, 6796

fire and explosion prevention and protection, 8295

ordnance plant in Bowie County, Tex., settlement of claims—

law, 12158

reports, 637, 801

see also Nuclear explosions.

Explosive guns, feasibility study, 8410

## Explosives:

and blasting agents, industrial, in United States, 1966 consumption, 15463

and conditions required for safe storage, USSR study, 1193

condensed, projectile impact initiation, 14343

explosive-loaded items, safety precautions, military standard, 13923

Federal item identification guides for supply cataloging, supplements, 3293

gap-sensitivity methods, 9791

in rock, performance, methods for studying, 5124

nitrogen dioxide in fumes from, rapid colorimetric method for field determination, 14338

performance, effect of charge diameter, 2570

publications, price list, 2803

sensitivity testing, combination statistical design, 9754

sound transmission of explosive shots, effect of weather, 9773

transporting, Navy driver's handbook, 7009

## Expo 67:

customs tips, 9358

immigration inspection, what you should know at time of entry to U.S. after visit, 11213

universal and international exhibition (remarks), 11697

Exponential curves, see Mathematics.

Export control act of 1949, see Exports.

Export-Import Bank of Washington:

act of 1945, amend, hearing, 15150

annual report, 1034

appropriations, 1967, law, 405

appropriations, 1968, hearings, 15014

audit reports, 8130, 9070

change name, extend, etc.—

hearings, 10642, 12399, 15150, 16314, 16317

reports, 10597, 15095

export financing, how Eximbank credits, guarantees, FCIA insurance work to increase export profits, 6232

financing in credit sales of defense articles, participation, hearing, 15150

general information, 6233

regulations for principals and agents, 1035

Export trade, see Commerce.

## Exports:

agricultural policy (address), 1677

airworthiness approval procedures, 8044

by air, foreign trade reports, 3358

comprehensive schedule, 3127, 8223

control, quarterly report, 3247

crops, surplus removal, statutes, compilation, 7262

current export bulletin, 3167

## Exports—Continued

### expansion—

Alabama (address), 10449

past, present and future (address), 11228

programs (remarks), 1949, 10466

regional products, hearings, 17678

export promotion, Action Committee on

Export Promotion, report, 7564

export success story (periodical), 3252

financing, Export-Import Bank, 6232

foreign trade—

airborne, summary reports, monthly, 3995

summary reports, monthly, 3998-4000,

4003, 4005, 10399

foreign trade reports, 3354-55, 3357, 8959,

12087-89

annual, 8961

full prosperity and progress (remarks),

240

impact on American labor, hearings, 6034

licenses approved and reexportations au-

thorized, list, 3250

manufactured products, 1966, survey of

origin, current industrial reports, 17436

manufacturers' sales and orders, current

industrial reports, 3169

market bulletin, 4921

mutual defense assistance control act of

1951 (Battle act), report, 7147

National and Regional Expansion Coun-

cils, directory, 16099

President's E award for export excellence,

presentation to—

A. R. Wood Manufacturing Co. (re-

marks), 4448

Dole Company (remarks), 7295

Panelfab International (remarks), 1949

York-Shibley, Inc., 4447

privileges, denial and probation orders

currently in effect, 11227

Rhodesian transaction, regulations and

related documents, 11885

sales promotion announcements, 3251

sales to countries in default in payment of

their obligations to U.S., applicability

of Johnson act, opinion of Attorney

General, 16789

statistical classification, schedule B, 1857,

3849, 5895-96, 7474

Philippine requirement regarding ship-

pers' export declarations, 5897

taxation, action Committee on Taxation,

recommendations, status report, 9021

total trade, summary reports, monthly,

4003

trade by commodity, summary reports,

monthly, 3999

trade by country, summary reports,

monthly, 4000

U.S. to Saudi Arabia, farm products, sup-

ply and demand projections to 1975,

implications, 7886

United States trade with major world

areas, 10460

working day and seasonal adjustment fac-

tors and months for cyclical dominance

(MCD), 4361

see also Commerce—also names or classes

of articles exported.

Exposure value (EV) system expanded to

include filter factors and transmittance,

6765

Express, see Letters.

Extended care facility manual, 5504, 7120

Extension and Continuing Education, Na-

tional Advisory Council on, see National

Advisory Council on Extension and Con-

tinuing Education.

Extension Service, see Federal Extension

Service.

Extension Service, Cooperative, see Coopera-

tive Extension Service.

Extension work, agricultural, using visuals

in programs, 16569

- Extraction (chemistry):  
determination of gold by solvent extraction and atomic absorption, 16688  
euxenite metal values by fusion with ammonium sulfate or ammonium bisulfate, 6685  
Extracts, *see* substances from which extracts are made.  
Extradition, convention with Israel, correction of text, agreement, 13153  
Extrapolation, Richardson's, application to numerical evaluation of sonic-boom integrals, 6859  
Extrasensory perception:  
report on parapsychology, USSR study, 9659  
wonder and mystery of psychics, USSR study, 6528  
Extravehicular operations, *see* Outer space.  
Eyeglasses, *see* Spectacles.  
Eyes:  
chorioretinal lesions produced by thermal radiation, study, 10231  
disorders, causes, etc., 18177  
eye-movements and subjective turning responses to angular acceleration, 15980  
nystagmic eye movements, influence on adaptation of interruption with opposing stimuli, 7447  
oculometer developed to control machine by eye, etc., 14376  
ophthalmoscopy in indirect light, USSR study, 12638  
protection, occupational safety aid, 9700  
rapid-eye-movement sleep deprivation, effects, 15900  
recovery of dark adaptation, effect of wavelength and bandwidth of red light, 14318  
research, NINDB, 8631  
Eyre, Dorothy, relief, 537  
Eyster, H. Clyde, mineral nutrient requirements of *Chlorella sorokiniana* in continuous pure culture, 14779
- F**
- F-4, *see* Fighter planes.  
F-106B, *see* Fighter planes.  
F-111B, *see* Fighter planes.  
F.A.A., *see* Federal Aviation Administration—Federal Aviation Agency.  
F.C.C., *see* Federal Communications Commission.  
F.C.I.A., *see* Foreign Credit Insurance Association.  
F.C.P.C., *see* Federal Committee on Pest Control.  
F.C.S., *see* Farmer Cooperative Service.  
F.D.A., *see* Food and Drug Administration.  
F.H.A., *see* Farmers Home Administration—Federal Housing Administration.  
F.N.M.A., *see* Federal National Mortgage Association.  
F.P.C.R. series, 4770-71  
F.P.C. S series, 2247, 6262-63, 7973, 11017, 12508, 17760  
FAA, *see* Federal Aviation Administration—Federal Aviation Agency.  
FAA aviation news (periodical), 9440  
Faber, Fred L., inventory of market news reports for eggs, 6173  
Faber, John H., fly ash utilization, proceedings of symposium, 14329  
Fabricated materials:  
large seals fabricated from small segments reduce procurement lead time, 1461  
nonmetallic, Federal item identification guides for supply cataloging, supplements, 3291  
Fabrication, *see* names of materials fabricated..  
Fabrics, *see* Textiles—also names of fabrics.
- Fabuss, Bela M.:  
Investigation of calcium sulfate precipitation, final report, 14198  
thermophysical properties of saline water systems, 12643  
Face, *see* Head.  
Facial tissue, suitability of Appalachian woods for sanitary tissue, 8100  
Facilities handbook series, 13053  
Facility operation, 7371  
Facility outage and equipment failure report (RIS SM 6040-5), 10983  
Fact book of U.S. Agriculture, 17324  
Factories:  
factory mutuals, a way of doing (address), 12129  
intrafactory mechanism for economic reform, USSR study, 4941  
labor turnover, monthly release, 3259  
size of establishments, 1963 census of manufactures, 4274  
Factors contributing to increased resistance of the organism, 11277  
Facts about America, 7491  
Faculty (schools):  
listens to students' serious evaluation of Lake Oswego High School, 17726  
staffing American colleges and universities, 7913  
teaching faculty in universities and 4-year colleges, spring 1963, general characteristics, etc., survey, 9413  
Fading (radio), *see* Radio communication.  
Faeth, Paul A.:  
effect of optical radiations, etc., on trapping spectrum of cadmium sulfide, 14455  
photodesorption of oxygen from nickel oxide powder, 16995  
Fagen, Castle H., evaluation of laminated elastomeric bearings in UH-1 helicopter tail rotor, 17389  
Failure reporting and management techniques in Surveyor program, 14406  
Fair, Gale, exact semiclassical theory for galvanomagnetic effects in metals, 15581  
Fair employment practices, *see* Discrimination in employment.  
Fair labor standards act, *see* Labor standards.  
Fair labor standards foreign trade act, *see* Labor standards.  
Fair packaging and labeling act, *see* Packaging.  
Fairbanks, Alaska:  
flood of Aug. 1967, report, 17675  
geology of permafrost tunnel, 17378  
satellite telemetry/telecommand station, agreement with European Space Research Organization, 11836  
Fairchild, John C., correlation of littoral transport with wave energy along shores of New York and New Jersey, 7925  
Fairplay, Mount, geology of area, 12599  
Fairs:  
Budapest International Fair, displays, 12687  
mobile trade fairs, guide to prospective operators, 4922  
Fairweather (ocean survey ship):  
launching (remarks), 7583  
Fajardo-Carpio, Arturo V., relief, 551  
Falb, Peter L., decoupling in design and synthesis of multivariable control systems, 18046  
Fall armyworm, *see* Armyworms.  
Fall out, *see* Radioactivity.  
Fall River County, S. Dak.:  
Cascade Springs quadrangle, geology, 14168  
Hot Springs quadrangle, geology, 12597  
Fallout, *see* Radioactivity.  
Falls, trips, slips, and falls, occupational safety aid, 9708



# INDEX 1967

## Families:

aid to families with dependent children—  
Cleveland and Cuyahoga County, Ohio,  
study, 4386  
Gary, Ind., 13435  
protective payments, report, 9060  
tables on percent of basic needs met,  
17196  
American families in poverty, fact sheet,  
5600  
by type, 1966, population characteristics,  
16008  
characteristics of metropolitan population,  
10360  
children of deprivation, changing course  
of familial retardation, 8966  
family economics review, 3260  
family food plan, sample menus and food  
list for week based on USDA economy  
plan, 10157  
family planning—  
community action for health, 2167  
report, 1136  
family status, Mar. 1966, population char-  
acteristics, 4350  
food stockpile for survival, 1697  
guard against accidents, 18163  
health interview survey, characteristics  
and health measures reported, 7097  
improved farm worker housing, handbook  
guide, 17728  
improving opportunities of low-income  
rural families, 5674  
income—  
average, 16026  
trends, 16035  
working wives, their contribution, 11914  
large family-rent subsidy demonstration  
program report, 5295  
low and moderate income—  
new programs in health, education, and  
welfare, 8193  
rental and cooperative housing, FHA  
mortgage insurance, 12624  
low-income—  
helping through parent education, sur-  
vey of research, 10402  
leasing program administered by local  
housing authorities, 2382, 11199  
rent supplement program, general in-  
formation, 4900, 6422  
Spanish-surname population of South-  
west, characteristics, 9389  
upward bound, 1967-68, program to  
help youth achieve college education,  
policy guidelines, etc., 9385  
migrant agricultural workers, housing,  
guide, 11924  
Negro in the West, social and economic  
condition, 15453  
personal and family survival, course, an-  
nouncement, 16507  
poor, women's earning in, fact sheet, 7238  
population characteristics, 7485  
projections of number, 1967-85, popula-  
tion estimates, 5882  
research relating to children, studies in  
progress, 8967  
retired serviceman's family protection  
plan, 7375  
social security information for young fam-  
ilies, 15742  
urban, clothing expenditures per member  
by sex and age, 14303  
Family farms, *see* Farms.  
Family life education, *see* Sex instruction.  
Family of Man award, accepted by W. Wil-  
lard Wirtz, Secretary of Labor, on behalf  
of the President (remarks), 1353  
Family planning, *see* Birth control.  
Fancy catfish, 8025  
Fankhouser, James C., thunderstorm cir-  
culation and turbulence studies from air-  
craft and radar data, 10966

## Fanning, John H.:

addresses—  
Apr. 17, 1967, 9949  
July 7, 1967, 15596  
Fans, lift fan studies, 11402  
*see also* Electric fans—Mechanical fans—  
Turbine fans.  
Far East, *see* East (Far East).  
Fara, Teresina, relief, 13606  
Farber, Eugene, overtaking and passing on  
2-lane rural highways, literature review,  
14641  
Farber, Florence, how government measures  
unemployment, 15437  
Fares, *see* Motorbuses.  
Farinas, Luis O. Martinez-, *see* Martinez-  
Farinas, Luis O.  
Farley, T. A., space sciences, 8433  
Farm animals, *see* Livestock.  
Farm buildings:  
building plans—  
boat landing, 39  
broller house, pole construction, 40  
cabin, concrete masonry construction,  
5664  
incinerator, concrete block, 4124  
irrigation pipe trailer, 1707  
1½ story dwelling, 42  
portable calf pens, 5659  
swine feeder, 15865  
3-bedroom rural dwelling, 5662, 13232  
3-bedroom tenant house, 5663  
2-bedroom farm dwelling, 5658  
vacation house, 8837  
cooperative farm building plan exchange  
(series), 39-40, 1707, 4124-25, 5658-  
59, 5661-64, 8837, 15865  
fire resistant construction, 15849  
foundations, 17310  
houses and equipment for laying hens,  
10183  
roofing, general information, 13223  
wood products for, selection and use, 7264  
Farm Center, World, *see* World Farm  
Center.  
Farm credit, *see* Agricultural credit.  
Farm Credit Administration:  
appropriations, 1968—  
hearings, 10629, 12397  
law, 17558  
reports, 10620, 13815  
audit reports, 4862, 5988  
circulars, 12484, 16544  
report, 1965-66—  
departmental edition, 9437  
document edition, 9051  
Farm employees, *see* Farm labor.  
Farm equipment, *see* Farm implements and  
machinery.  
Farm families, *see* Families.  
Farm food marketing bill and its compo-  
nents, 6170  
Farm implements and machinery:  
current industrial reports, 3170, 5859,  
15995  
equipment for applying soil pesticides,  
14735  
Federal item identification guides for sup-  
ply cataloging, supplements, 8286  
Intrafactory mechanism for economic re-  
form, USSR study, 4941  
machines and equipment on farms with  
related data, 1964 and 1959, report,  
10202  
planning replacements, 4115  
*see also* Tractors.  
Farm income, *see* Income.  
Farm index (periodical), 3262  
Farm labor:  
developments, 3264  
employment and wage supplement, 3265  
employer-employee relationship in agri-  
culture sharecropping arrangements or  
landlord-tenant agreements under fair  
labor standards act, guide, 13176



**Farm Labor—Continued**

extend provisions of National labor relations act to agricultural employees, hearings, 15025  
 good farm worker housing is good farm business, 2194  
 hired working force of 1966, statistical report, 16487  
 improved housing for workers, handbook guide, 17728  
 interstate, contractors, registration, general information, 6203  
 jobs from Gulf to Great Lakes, guide, 6202  
 migratory agricultural workers—  
   countries having 100 or more, 2811  
   family housing, guide, 11924  
   project grants for services—  
     hearings, 15172, 17600  
     law, 16144  
     reports, 14972, 16366  
     6 steps forward, 17186  
 migratory, problem in U.S., report, 7784  
 minors employed in agriculture under fair labor standards act, as amended in 1966, what crew leaders, etc., should know, 10132  
 monthly report, 3263  
 movement between farm and nonfarm sectors, Tennessee Valley, 17262  
 on-the-farm training under cold war GI program—  
   hearings, 10859  
   law, 16133  
   report, 10792  
 seasonal work patterns of hired farm working force, 984  
   supplement, 9387  
 service programs to cope with rural change (remarks), 6204  
 situation in selected States, 7882  
 skills and earning power, improving, role of technical schools, case study, 5040  
 slides and films, employment security, 12472  
 traveler/el viajero, quarterly newsletter for migrant and seasonal farm workers, 7879  
 USSR, protective masks available for agricultural workers, description, 2457  
 Farm loans, *see* Agricultural credit.  
 Farm machinery, *see* Farm implements and machinery.  
 Farm management, *see* Farms.  
 Farm mortgages, *see* Mortgages.  
 Farm prices, *see* Prices.  
 Farm products, *see* Agricultural products.  
 Farm silos, 5656  
 Farm supply cooperatives, *see* Farmer's cooperative organizations.  
 Farm work, *see* Farm labor.  
 Farm workers, *see* Farm labor.  
 Farmer, Evelyn M., Department of Commerce publications, 1965 supplement, 4454  
 Farmer, Robert E., jr., gibberellin-induced growth of dormant sweetgum, 8093  
 Farmer Cooperative Service:  
   appropriations, 1968, hearings, 10629, 12397  
   FCS educational aid, 2229  
   FCS educational circulars, 2230, 15234  
   general reports, 2231, 7943-44, 12485, 15235, 16545  
   information series, 2232  
**Farmers:**  
   bargaining power (remarks), 10197, 13240  
   better income for farmers, balanced abundance for consumers, 11938  
   checklist for pesticide safety, 5668  
   expenditures for pesticides, 6171  
   farm operator level-of-living indexes for counties of United States, 13250  
   farm operators in Tennessee Valley, multiple job holdings, 17262

**Farmers—Continued**

farmers unions play important role in development of rural America (address), 4095  
 important role in new programs (address), 10159  
 increased material interest and improved wages for collective farmers, USSR study, 2475  
 insurance facts, 11928  
 parity returns position, report, 13724  
   print as Senate document, report, 15100  
 publications, list, 8206  
 self-employed—  
   are you getting your social security credit, 2863, 18210  
   reporting income for social security, special information, 1605  
   social security information, 15741  
   tax deductions from gross income for assessments for depreciable property levied by soil or water conservation or drainage districts, report, 7690  
   tax guide, 1967 edition, 1142  
   unrest, and what they want (remarks), 10196  
   ways they do business, 2229  
   wide gap between food prices and prices received (statement), 52  
   *see also* Farmers' cooperative organizations.  
 Farmers' bulletins, 1685-93, 4103-6, 5625-28, 7270-71, 8825-30, 10164-170, 11928-929, 13221-223, 14739-742, 15847-849, 17309-312  
 Farmers' cooperative organizations:  
   agricultural transportation, issuance of certificates of exemption on application and proof of eligibility, hearings, 947  
   collective bargaining groups for poultry feed prices, 7944  
   control unfair trade practices affecting producers of agricultural products, hearings, 10800  
   cooperatives and rural-urban balance (remarks), 13220  
   co-ops must use their strong bargaining power for better grain prices (remarks), 10196  
   discrimination against members, report, 15086  
   exempt from FPC jurisdiction, hearings, 16401  
   grain elevators, inventory control and valuation practices, 15235  
   how cooperatives grow, 12484  
   income tax returns, 1963, supplemental report, 2412  
   news for farmer cooperatives, 3631  
   organizing and conducting cooperatives' annual meetings, 15234  
   owning or leasing of covered hopper cars, 16545  
   regional cooperatives handling supplies, 1964 and 1965, handbook, 7943  
   statistics, 1964-65 survey, 12485  
   transportation factors in marketing soybeans, cottonseed and their products, 16546  
   two supply cooperatives serving low-income farmers, analysis in Appalachia, 2231  
   ways farmers do business, 2229  
 Farmers Home Administration:  
   appropriations, 1968, hearings, 10629, 12397  
   career opportunities, building new rural America, 1036  
   consolidated act of 1961, amend—  
     hearings, 15145  
     report, 15090  
   debtors' accounts, effort to collect or otherwise settle, GAO review, 4879

Farmers Home Administration—Continued  
 efforts to have borrowers refinance their Government loans when private or co-operative credit becomes available, GAO review, 1103  
 farm mortgage lending experience, 9395  
 insured loans—  
   increase annual ceiling, hearings, 15145  
   information for lenders, 4132  
 land conveyance to Skyline Churches Cemetery, 288  
 loan assistance to grazing associations, 1717  
 loans for rental and co-op housing for senior citizens, etc., in rural area, 10194  
 loans for water development and soil conservation, questions and answers, 4131  
 operation of opportunity loan program in rural America, story in pictures and words, 5674  
 opportunity loan program, general information, 8839  
 rural housing loans, 10188  
 strengthens family farms, etc., 5670  
 valueless liens, etc., release, report, 15090  
 watershed loan program, questions and answers, 4129  
**Farmhouses:**  
 farm building plans—  
   cabin, concrete masonry construction, 5664  
   1½ story dwelling, 42  
   3-bedroom rural dwelling, 5662, 13232  
   3-bedroom tenant house, 5663  
   2-bedroom farm dwelling, 5658  
**Farming, see Agriculture—Dry farming.**  
**Farms:**  
 auxiliary, private, economic role, USSR study, 5015  
 banking and farm finance, present challenge (remarks), 6298  
 beef slaughtering, cutting, and processing, 4106  
 census of agriculture, 5903-4, 7499-7510, 8962-65, 10388-398, 12091-92, 13404-412, 14837-839, 16036-40, 17442  
 commercial slaughter, meat, and lard production, etc., 11879  
 cost situation, 1967 outlook issue, 994  
 costs and returns, 986, 13943, 16488-490  
 commercial cotton farms, 986  
 commercial dairy farms, northeast and midwest, 16488  
 commercial egg-producing farms, New Jersey, 16189  
 commercial tobacco farms, Coastal Plain, North Carolina, 13943  
 commercial tobacco-livestock farms, Bluegrass area and Pennyroyal area, Ky.-Tenn., 16490  
 cropland adjustment program, eligibility of farm acquired to replace farm transferred to agency having right of domain, report, 15087  
 differential assessment of farmland near cities, experience in Maryland, 17712  
 dryland, in Great Plains, organizing and operating, regional research project GP-2, summary, 7883  
 economies of size, theory, analytical procedures, etc., 6172  
 electric water pumps, 10176  
 family, Farmers Home Administration strengthens, 5670  
 farm income programs (remarks), 10198  
 farm policy for the future (address), 7269  
 farm real-estate credit, analysis of borrowers and lenders, 2170  
 father-son operating agreements, 10166  
 grain, comparison of costs of storing on farm with rates paid for such storage, Commodity Credit Corporation, GAO report, 2342  
 growth and capital accumulation in rolling plains of Oklahoma and Texas, polyperiod analysis, 17336

**Farms—Continued**  
 increasing income through grazing associations, 1717  
 irrigated, mosquito prevention, 7261  
 irrigation systems, planning, 14652  
 livestock, raising on small farm, 1692  
 machine and equipment on farms with related data, 1964 and 1959, report, 10202  
 management, publications, price list, 7055  
 management supervisor, examination announcement, amdt., 12107  
 milk cows on farms, production per cow, etc., 5683  
 population, 1966, United States, 12084  
 population, series Census ERS, 12084  
 production and efficiency changes, summary report, 13247  
 production, effects of increased incentives, USSR, 2468  
 programs, operation and administration, problems and complaints, hearings, 10799  
 prospector, cowhand, and sodbuster, historic places associated with farming, etc., in trans-Mississippi West frontier, 13008  
 real estate market developments, 12457  
 rent determination problem, 17311  
 rope, types, selection, etc., and preparation for use on farm, 4103  
 safety week, keep your sights on safety, safe use of firearms, facts, 10187  
 taxation on rural-urban fringe, summary of State preferential assessment activity, 16486  
 taxes, teaching program, 8221  
 vegetable gardens, planning, planting, etc., 8831  
 wheat storage, insect control, 4112  
 where and how to get a farm, questions and answers, 17321  
 see also Electricity—also headings beginning Agricultural—Farm.  
**Farnes, Phillip E.:**  
 water supply outlook and Federal-State-private cooperative snow surveys for Montana, 4047  
 water supply outlook for Montana, 18217  
**Farnsworth Lantern, see Color perception.**  
**Farrar, J.,** nucleation and growth of ice crystals, 6442  
**Farrell, Edward J.,** information limits of scanning optical systems, 5173  
**FAS-M series,** 1084, 2286, 4816-17, 8047-48, 9524-25, 11097-99, 12565, 14076, 16641-643, 17792  
**Fascenelli, Frederick W.:**  
 biomedical monitoring during dynamic stress testing—  
   Flack test, 7360  
   instrumentation and normal values, 7343  
   Levy hypoxia test, 7344  
   maximum exercise tolerance, ergometer, 7361  
   tilt table orthostatic tolerance test, 7362  
**Fashion, origin and early history of the fashion plate,** 14531  
**Fast announcement (periodical),** 3266  
**Fast announcement service, Clearinghouse for Federal Scientific and Technical Information,** 10437  
**Fast neutrons, see Neutrons.**  
**Fast reactors, see Reactors (atomic).**  
**Fasteners, see Fastenings.**  
**Fastenings:**  
   fasteners, test methods, military standard, 15198  
   potting compound for honeycomb sandwich fasteners, depth control, study, 6834  
   threaded fasteners, Federal item identification guide, 15187  
   zippers, replacing, 7288  
**Fat, see Fats.**

- Father-son agreements for operating farms, 10166
- Father's Day, designate, report, 10771
- Fatigue, failure, aircraft structures, 17062
- Fatigue of materials, *see* Strains and stresses.
- Fats:
- body composition of military population, Ft. Carson, 1963, report, 120
  - current industrial reports, 3169, 5860, 7478
  - fats and oils situation, 3267
  - fatty acids, expanding market for fats and oils, 10921
  - foreign agriculture circulars, 3345
  - hydrazine effect on fat transport as affected by blood glucose concentration, 65
  - outlook (talk), 4704
  - prospects for fats and oils and fatty acid industry (talk), 12460
  - U.S. fats and oils, statistics, 4144
- Fatty acids:
- expanding market for fats and oils, 10921
  - prospects for fats and oils and fatty acid industry (talk), 12460
- Faul, Henry, nuclear clocks, 7442
- Faull, G. F. Valdés, *see* Valdés-Faull, G.F.
- Faulkner, Ralford L., remarks, May 30, 1967, 10316
- Faults (geology):
- Enos Creek detachment thrust fault, Late Cretaceous and Cenozoic geology, 2360
  - zoogeographic evidence for late Tertiary lateral slip on San Andreas fault, Calif., 17827
- Fauna, *see* Corals.
- Faust, George T., solution studies of chrysothite, etc., 8160
- Fay, Joseph L., lectures, Aug. 1964, 15737
- Fay, William T., paper, Aug. 14-15, 1966, 4304
- Fayette County, W. Va., coal, carbonizing properties, 2576
- FCC, *see* Federal Communications Commission.
- FCIA, *see* Foreign Credit Insurance Association.
- FCPC, *see* Federal Committee on Pest Control.
- FCR series, 13943, 16488-490
- FCS, *see* Farmer Cooperative Service.
- FDA, *see* Food and Drug Administration.
- FDA papers (periodical), 4814
- FDA poster series, 16639
- FDIC, *see* Federal Deposit Insurance Corporation.
- FDL- (series), 4802
- Fear, Cape:
- to North Carolina-South Carolina State line, hurricane survey, engineer report—
  - departmental edition, 2205
  - document edition, 2005
- Feather, Milton S., preparation and purification of cellulose 1-C14, 14087
- Feces:
- enteric microbial flora of man in oxygen-helium atmosphere, 79
  - fecal coliforms in environment, sanitary significance, 6343
  - human, clostridia recovery, development of method, 4182
  - preparation for bomb calorimetry, improved method, 1742
- Fecundity:
- activities of Department of Health, Education, and Welfare Department, report on family planning, 1136
  - analyses of fertility assumptions for OASDI long-range level-cost estimates, 15736
  - fertility and educational attainment, Puerto Rico, 15715
  - quantitative measures for analysis of fertility series, 7498
- Fedde, Gerhard F., annotated bibliography of literature (1792-1962) on elm spanworm, *Ennomos subsignarius* (Hbn.), 2287
- Federal agencies, *see* Government offices.
- Federal aid, *see* Grants-in-aid.
- Federal aid programs, *see* Roads and highways.
- Federal air pollution program, 5431
- Federal approach to multiple handicapped, 18142
- Federal Aviation Administration:
- aeromedical research facilities, Oklahoma City, Okla., acquisition and use, GAO review, 8139
  - air traffic activity, reports, 1037, 6235, 16550
  - airmen, other than flight crewmembers, certification, Federal aviation regulations, 2235
  - airworthiness directives—
    - large aircraft, summary, 3917, 12502, 17748
    - periodical, 3256, 9439
    - small aircraft, summary, 3918, 11007, 16562  - annual report, 10985
  - bibliographic list, 4753
  - budget, 1968, amendments, 16350
  - contractions used in air traffic control, etc., handbook, change, 5716, 13273
  - coordination between procurement of technical equipment and its ultimate utilization, GAO review, 2346
  - definitions and abbreviations, Federal aviation regulations, 1038, 9441, 12488, 14000
  - enforcement procedures, regulations, 10986, 14001, 17743
  - establish—
    - law, 389
    - report, 906  - FAA handbook series, 2233, 4754-55, 6236, 7946, 10979-983, 14012
  - Federal aviation regulations, 1038-41, 2234-37, 3917-18, 4757-59, 6238-41, 7947-51, 9441-44, 10986-11005, 12488-498, 14000-11, 15237-238, 16551-557, 17743-746
  - status, 2238, 6242, 12501
  - fees for copying and certifying FAA records, FAA regulations, 11004
  - handbook series, 16558-560
  - information services, handbook, 10979
  - maintenance bulletins, handbook, 10982
  - maintenance certification procedures, handbook, 10981
  - organization, headquarters, handbook, 16558
  - participation in cost of airport projects involving donated land, GAO review, 15300
  - procurements, and costs of dedication ceremonies in Pacific region, GAO review, 11155
  - publications, lists, 6237, 7059, 10984
  - recognition and awards program, FAA handbook, 4754
  - representatives of administrator, FAA regulations, 11004
  - rule making procedures, FAA regulations, 1039, 12489
  - statistical handbook of aviation, 4756
  - technical standard order authorizations, regulations, 9443, 17744
  - use of communications systems, FAA regulations, 11004
  - violation investigation and reporting, handbook, 2233
- Federal Aviation Agency:
- transfer—
    - law, 389
    - report, 906  - see also* Federal Aviation Administration.
- Federal buildings, *see* Public buildings.
- Federal career service at your service, 7546

# INDEX 1967

- Federal City College :  
 establish in D.C.—  
 law, 495  
 report, 693
- Federal civil defense guides, 190-195, 4379-81, 5912-13, 8977-79, 10405-406, 13421-423, 14842
- Federal civil service, *see* Civil service.
- Federal Coal Mine Safety Board of Review :  
 appropriations, 1967, supplemental, hearings, 2040  
 appropriations, 1968—  
 hearings, 7734  
 law, 12170  
 reports, 10560, 10766  
 member, nomination of Dennis L. McElroy, hearing, 10863
- Federal Committee on Pest Control :  
 pesticides monitoring journal (periodical), 11008  
 what it is, what it does, 9449
- Federal Communications Commission :  
 actions in docket cases, reports, 3269  
 actions on motions, report, 3269  
 annual report, 6243  
 appropriations, 1968—  
 hearings, 9145, 15147  
 reports, 10600, 15131  
 decisions and reports, bound volumes, 2239, 4760, 7954, 14017, 17750  
 decisions, reports, public notices and other documents (periodical), 3270  
 maritime services, radio stations on land, shipboard, etc., rules and regulations, 3274  
 members—  
 nomination of Robert E. Lee, hearing, 13855  
 nominations, hearings, 6094  
 memorandum opinions, etc., 3549  
 nonbroadcast and general actions, reports, 3269  
 organization, FCC rules and regulations, 3271  
 practice and procedure, FCC rules and regulations, 3271  
 press releases, 3721  
 public notices, 3269, 3721  
 regulatory and enforcement activities relating to small business, report, 4513  
 rules and regulations, 4761  
 transmittal sheets, 3271-79  
 telephone and telegraph committees report in domestic telegraph investigation, 17751
- Federal Correctional Institution, Englewood, Colo. :  
 experimental and training projects, 1961-64, selected materials related to, 2798  
 supplement, 2799
- Federal Council for Science and Technology :  
 Government patent policy, annual report, 2240  
 report, 11780
- Federal credit unions :  
 accounting manual, revised pages, 15230  
 act, amend—  
 hearings, 10643, 13845  
 reports, 9283, 10603, 16386  
 gifts to minors in D.C., permitting deposits, report, 13639  
 loans to directors, etc., amend act—  
 hearing, 10643  
 law, 12179  
 reports, 9283, 10603  
 modernization of loan, etc., procedures—  
 hearing, 13845  
 report, 16386  
 organizing, 14018  
 program, annual report, 17754  
 shares purchase through payroll allotment—  
 hearing, 13845
- Federal Credit Unions Bureau :  
 accountants, opportunities, 6246  
 annual report, 17754  
 meeting with officials, hearings, 9150
- Federal Crop Insurance Corporation :  
 appropriations, 1968, hearings, 10629, 12397  
 audit report, 5991  
 financial statements, 1966, GAO examination, 4863
- Federal Departmental Wage Board, establish, hearing, 12425
- Federal Deposit Insurance Corporation :  
 annual reports, 1043, 14019  
 audit reports, 2341, 5987, 14149, 14925  
 insured banking offices, list, supplements, 3514  
 meeting with officials, hearings, 9150  
 press releases, 3722  
 regulatory authority, strengthen—  
 law, 409  
 reports, 666, 674, 691  
 report of call, 7958, 16567
- Federal Development Planning Committees for Alaska :  
 appropriations, 1968—  
 hearings, 7734, 9302  
 law, 12170  
 reports, 10560, 10766, 12252  
 Federal disaster assistance, 7919
- Federal employees, *see* Government officials and employees.
- Federal employees compensation act, *see* Employers' liability and workmen's compensation.
- Federal employment, *see* Employment.
- Federal expenditures, *see* Finance.
- Federal exploration of American West, 8516
- Federal Extension Service :  
 appropriations, 1968, hearings, 10629, 12397  
 circulars, 16568-569  
 civil defense program, knowledge for survival, 3463  
 cooperative extension services in District of Columbia, establish, hearing, 16387  
 Extension Service review (periodical), 3255  
 FES aid, sanitation series, 14022
- Federal Field Committee for Development Planning in Alaska :  
 appropriation of funds, authorize—  
 law, 14913  
 reports, 12375, 13679
- Federal Fire Council :  
 film library list for safety programs, 14164  
 fire experience, 16679  
 library accessions, list, 3511  
 minutes of meeting, 17816  
 minutes of special meeting held at N.I.H., 12594  
 publications, list, 4884  
 recommended practices series, 8151  
 Federal Government, *see* Government.
- Federal grading services, *see* Grading of commercial products.
- Federal Highway Administration :  
 Administrator, nomination of Lowell K. Bridwell, hearing, 6126  
 creation (remarks), 1950  
 establish—  
 law, 389  
 report, 906  
 general information, 12503  
 location and design problems of interstate highway system segments in metropolitan areas, GAO report, 15299
- Federal Home Loan Bank Board :  
 appropriations, 1968—  
 hearings, 9145, 15147  
 reports, 10600, 15131  
 current issues and policies (remarks), 17756  
 digest, 3282  
 financial statements, 1966, GAO examination, 15295  
 meeting with officials, hearings, 9150  
 member, nomination of John E. Horne, hearing, 12401  
 press releases, 3723

Federal Home Loan Bank Board—Cont.  
regulation of savings and loan holding companies, etc., strengthen—  
hearings, 13849, 16316  
report, 13796  
regulatory authority, strengthen—  
law, 409  
reports, 666, 674, 691  
report, 16573

Federal Home Loan Bank System:  
combined financial statements, 1965—  
member S & L's, 6249  
members of System, 16572

Federal home loan banks:  
act, amend, hearings, 15019  
audit report, 14924  
financial statements, 1966, GAO examination, 12586

Federal Hospital Insurance Trust Fund,  
Board of Trustees, *See* Board of Trustees  
of Federal Hospital Insurance Trust Fund.

Federal Housing Administration:  
acquired residential properties, savings  
possible by consolidating management,  
GAO report, 11585  
audit report, 12204  
FHA mortgage insurance on housing for  
elderly, 6427  
FHA regulations, 6250-56, 11011-13,  
12505, 17757  
FHA's experimental housing program,  
6426  
financial statements, 1965, GAO examination, 11146  
financing condominiums, 2384, 4903  
financing home purchases and home  
improvements under FHA programs,  
16708  
handbook for multifamily projects, 2245  
home mortgage insurance—  
area trends, 9454, 12504  
State trends, 9455, 12506  
home mortgage payments, guidelines,  
6428  
houses, newly constructed, need for  
strengthened procedures to reduce number  
of extra final inspections, GAO  
report, 11148  
how FHA helps on home trade-ins, 4901  
insurable loans, digest, 6433  
insured loans for major home improvement,  
4904  
insured mortgages, investment of institutional  
funds in, 12626  
manual, mortgagee's handbook, home  
mortgage programs, revisions, 4767-69,  
14025  
mortgage insurance, urban renewal, consumer  
bulletin, 11203  
multiple dwelling projects, investigation—  
hearings, 2118  
hearings, errata, 9314  
report of findings, 12392  
nursing home insurance, 1965 survey,  
6435  
press releases, 3724  
rental housing program, what it is, how  
it works, 6423  
three ways to finance home improvements  
through FHA, 11202  
title 10, mortgage insurance, land development  
handbook, 16575

Federal intermediate credit banks:  
debentures issued, delete interest rate  
limitation—  
hearing, 707  
report, 633  
farm credit system, audit reports, 4862,  
5988

Federal item identification guides:  
brush electrical contact, 6148  
compressors, reciprocating, rotary, and  
centrifugal, 13916  
conduit, electrical, 17694  
conduit fittings, 15183

Federal item identification guides—Cont.  
electrical posts, splices, and terminals,  
10892  
furnaces and space heaters, 15184  
glass, figured, corrugated, plate, sheet,  
and spandrel, 6149  
heating elements, electrical, 16462  
improvement program procedures manual,  
2147  
inner tube, pneumatic tire, 15185  
insulation, thermal, 13917  
insulators, electrical, 17695  
keys and pins, 17696  
knobs, dials, and pointers, 17697  
pipe and tube, metallic, 10893  
resistors, fixed and adjustable, 10894  
rivets, rivet caps, and collars, 15186  
rod and rod section, ground, 10895  
threaded fasteners, 15187  
tires, pneumatic and solid, 10896  
washers, 16463

Federal item identification guides for supply  
cataloging, supplements, 3283-93

Federal Judicial Center:  
establish—  
hearings, 12306, 16422  
report, 12258

Federal land banks:  
farm mortgage lending experience, 9395  
federal land bank system, half century of  
service to agriculture, 16544  
loans, stockholder personal liability on  
report, 15130  
medal in commemoration of anniversary—  
law, 397  
report, 690

Federal lands, *see* Public lands.

Federal Library Committee, newsletter,  
3337

Federal manual for supply cataloging, 12439,  
16458, 17689

Federal Maritime Administration:  
establish—  
hearings, 16335  
reports, 15009, 16278

Federal Maritime Commission:  
activities, responsibilities, etc. (remarks),  
6260  
American merchant marine grows under  
its guidance (address), 9456  
appropriations, 1967, law, 501  
appropriations, 1968—  
hearings, 10632, 16390  
reports, 10616, 16372  
authority to exempt water carrier operations  
from certain provisions of  
shipping act, 1916—  
hearings, 4552  
law, 482  
Commissioner, nomination of Ashton C.  
Barrett, hearing, 15153  
decisions, bound volume, 15244  
decisions, separate, 3294  
economic and promotional responsibilities  
of regulatory agency (remarks), 16579  
functions (remarks), 16577-578  
legislation and activities report, hearings,  
16337  
orders, notices, rulings and decisions,  
3662  
press releases, 3725  
pre-trial discovery procedures, empower to  
adopt—  
hearings, 13852, 16337  
report, 15084  
report, 1966—  
departmental edition, 7967  
document edition, 7594  
SP series, 2246-47, 6258-60, 7968-72,  
9456, 11016, 16577-579

Federal Mediation and Conciliation Service:  
annual report, 12507  
appropriations, 1967, law, 491  
appropriations, 1968—  
hearings, 9144, 13841  
reports, 10612, 15082

# INDEX 1967

- Federal Metal and Nonmetallic Mine Safety
  - Board of Review, create, report, 647
- Federal National Mortgage Association :
  - audit report, 13558
  - financial statements, GAO examination, 2343, 4488, 14150
  - increase borrowing and purchasing authority, reports, 4500, 4502
  - participation certificates outstanding, inclusion in public debt limitation—
    - law, 13526
    - law, legislative history, 15051
    - report, 12273
  - press releases, 3726
- Federal news clip sheet, 3296
- Federal offenders in United States district courts, 8799
- Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Fund, *see* Board of Trustees of Federal Old-Age and Survivors Insurance and Disability Insurance Trust Funds.
- Federal Open Market Committee :
  - monetary policy framework, analysis, 7740
  - rules of organization, availability of information, and procedure, 14046
- Federal personnel manual, *see* Civil service.
- Federal plan for meteorological services and supporting research, 9431
- Federal plan for National Agricultural Weather Service, 6226
- Federal plan for National Fire-Weather Service, 9432
- Federal planning, *see* Economic policy.
- Federal Power Commission :
  - annual report—
    - departmental edition, 6261
    - document edition, 5982
  - appropriations, 1968—
    - hearings, 9145, 15147
    - reports, 10600, 15131
  - career opportunities, accountants, attorneys, etc., 4779
  - Commissioner, nomination of Carl E. Bagge, hearing, 15153
  - daily news digest, 3629
  - Federal power act, text, 17759
  - jurisdiction, amend act, hearings, 16401
  - laws, compilation, 1984
  - nominations, hearings, 6094
  - practice and procedure rules, 3308, 14032
  - press releases, 3727
  - prevention of power failure, final report, 14030
  - publication list, 6265, 14031
  - R series, 4770-71
  - regulations under Federal power act, 3816
  - changes, 2254
  - reports, opinions, decisions, and orders—
    - bound volumes, 14026, 16581
    - cumulative index-digest, bound volume, 17758
    - monthly, 3307
  - S series, 2247, 6262-63, 7973, 11017, 12508, 17760
  - safety of interstate natural gas pipelines, prescribe safety requirements, etc., hearings, 6093
- Federal Prison Industries, Inc. :
  - annual report, 2797
  - audit report, 5989
  - financial statements, 1966, GAO examination, 4864
- Federal Prison Service, correctional officer, examination announcement, 7541
- Federal probation (periodical), 3309
- Federal procurement regulations, FPR amendments, 3310
- Federal property, *see* Public property.
- Federal Radiation Council :
  - appropriations, 1967, law, 491
  - appropriations, 1968—
    - hearings, 9144, 13841
    - reports, 10612, 15082
  - reports, 17761
- Federal Railroad Administration :
  - establish—
    - law, 389
    - report, 906
- Federal Reformatory, Chillicothe, lands, relinquish jurisdiction to Ohio, law, 460
- Federal register, 3311-12
  - index, 3313
- Federal regulations, *see* Code of Federal regulations—*also* subjects.
- Federal Republic of Cameroon, *see* Cameroon.
- Federal Republic of Germany, *see* Germany.
- Federal Republic of Nigeria, *see* Nigeria.
- Federal reserve agents fund, transactions, 3424
- Federal reserve banks :
  - act of 1913 with amendments, text, 1985
  - condition statement, 3258
  - credit extension, amend law as to security acceptable—
    - hearing, 7800
    - report, 9282
  - hours, opening and closing, and holidays, 3651
  - interdistrict settlement fund, transactions, 3424
  - monetary policy (remarks), 2263
  - purchase of foreign govt. obligations, authorize—
    - hearings, 7800
    - report, 9281
  - State member banks, list, 6305
  - see also* other headings beginning Federal reserve.
- Federal reserve bulletin, 3314
- Federal reserve chart book, financial and business statistics, 3315
  - historical supplement, 16591
- Federal reserve member banks :
  - assets and liabilities—
    - monthly report, 3047
    - summary report, 3048
  - changes in State bank membership, weekly announcement, 3090
  - deposits, money supply, currency, etc., 3567
  - deposits, reserves, and borrowings, bi-weekly report, 3201
  - income, 1965, statistical release, 2262
  - loans to executive officers, limitation, amend—
    - hearings, 7800, 10643
    - law, 12179
    - reports, 9283, 10603
  - loans to executive officers, regulations, amendment, 12534
  - payment of interest on deposits, Federal reserve regulation Q, 6301
  - public information act, effect, 14042
  - reserves, factors affecting, 3258
  - reserves of member banks, regulation, 4788
    - supplements, 4789, 8003
- State member banks—
  - lists, 3895, 6305
  - securities, regulation, 11057
- Federal reserve par list, 2258, 3316, 17762
  - errata, 4782
- Federal reserve system :
  - Federal reserve act, amend—
    - hearings, 7800, 10643, 17595
    - laws, 12179, 17541
    - reports, 648, 9281, 9283, 10603, 13816
  - Federal reserve policy and credit markets (remarks), 1061
  - foreign exchange operations, 8005, 16599
  - international responsibilities (remarks), 4787
  - looks at balance of payments (remarks), 2261
  - monetary control, insures prosperity for all (remarks), 12536
  - regular audit by Comptroller General, provide, hearings, 17595



Federal Reserve System Board of Governors :  
 annual report, 9488  
 applications received, or acted on, during  
 week, 3035  
 authority, rules regarding delegation,  
 12535  
 functions, delegation, authorize—  
 law, 469  
 report, 667  
 hearings, formal, rules of practice, 15250  
 hours, opening and closing, and holidays,  
 3651  
 meeting with officials, hearings, 9150  
 member, nomination of William W. Sher-  
 rill, hearing, 9308  
 press releases, 3728  
 publications, list, 4785, 12532  
 regulation series, 1066, 4788-89, 6301,  
 8003-4, 9495, 11057, 12534, 14043-44  
 regulatory authority, strengthen—  
 law, 409  
 reports, 666, 674, 691  
 research library, recent acquisitions, 3826  
 rules of organization—  
 and of procedure, 16597  
 availability of information, and proce-  
 dure, 14046  
 rules regarding availability of informa-  
 tion, 14047  
 staff economic study, 4790, 6303, 14040  
 statistical releases, 3052  
 Federal retirement systems, *see* Civil service  
 pensions.  
 Federal Safety Council :  
 objectives, membership, organizational  
 structure, 8006  
 work injuries, facts and figures, 1070  
 Federal savings and loan associations :  
 combined financial statements, 6249  
 rules and regulations, changes, 9453, 15242  
*see also* Savings and loan associations.  
 Federal Savings and Loan Insurance Corpo-  
 ration :  
 audit reports, 11145, 12202  
 financial statements, 1045, 4766, 7962,  
 11009, 15240  
 meeting with officials, hearings, 9150  
 regulatory authority, strengthen—  
 law, 409  
 reports, 666, 674, 691  
 savings and loan associations, insured sav-  
 ings and mortgage lending activity, se-  
 lected balance sheet items, 3365  
 Federal service, *see* Civil service.  
 Federal Services Finance Corporation, in-  
 vestigation, hearings, 726  
 Federal specifications, *see* Government sup-  
 plies.  
 Federal standards, 1072, 2267-70, 4794-96,  
 6307-15, 8008, 9498, 11062-65, 16601-  
 604, 17764  
 index, 6335  
 Federal-State-local relations, *see* Intergov-  
 ernmental relations.  
 Federal supply catalogs, 2151, 3319-21,  
 7855-56  
 Federal supply classification handbook,  
 groups and classes, 975  
 Federal supply code, *see* Government sup-  
 plies.  
 Federal support to universities and colleges,  
 17057  
 Federal system and economic development,  
 role of State planning, 13934  
 Federal system as seen by Federal aid offi-  
 cials, print additional copies, reports,  
 4597, 10585  
 Federal tax policy, *see* Taxation.  
 Federal test method standards, 9499, 15252,  
 16605  
 Federal textbook on citizenship, 11211,  
 12629-632, 14190-191  
 Federal Trade Commission :  
 appropriations, 1968—  
 hearings, 9145, 15147  
 reports, 10600, 15131

Federal Trade Commission—Continued  
 commissioner, nomination of Mary G.  
 Jones, hearing, 6095  
 decisions—  
 bound volume, 12538  
 separates, 3328  
 news summary, 3329  
 press releases, 3729  
 report, 1966—  
 departmental edition, 6336  
 document edition, 5978  
 trade practice rules, proposed, 3779  
 Federal Wage Board Committee, establish,  
 hearings, 16432  
 Federal Wage Board Council, appoint, hear-  
 ings, 16432  
 Federal wage-hour law, *see* Labor standards.  
 Federal Water Pollution Control Adminis-  
 tration :  
 appropriations, 1968—  
 hearings, 12287, 16393  
 report, 13678  
 career opportunities, your career and clean  
 water for America, 8012  
 establish, text, 6340  
 manpower and training needs in water  
 pollution control, report to Congress,  
 17615  
 press releases, 3730  
 Federal Youth Correctional Institution,  
 Englewood, Colo., *see* Federal Correctional  
 Institution, Englewood, Colo.  
 Feed, *see* Food for livestock.  
 Feed grains, *see* Grain.  
 Feed mechanisms, automatic equipment for  
 livestock and poultry, 8830  
 Feed systems (antennas), *see* Antennas.  
 Feed-through connector couples rf power  
 into vacuum chamber, 8386  
 Feed-thru flange is useful in vacuum applica-  
 tions to cryogenic temperatures, 6778  
 Feed water, *see* Boilers.  
 Feedback control systems :  
 influence of response feedback loops on  
 lateral-directional dynamics of variable-  
 stability transport aircraft, 11516  
 negative, reduce pump oscillations, 8473A  
 preregulator feedback circuit utilizes light  
 actuated switch, 2663  
 problem of meeting movements, USSR  
 study, 15427  
 state variable, digital computer program  
 for analysis and design, 14397  
 time-optimal response by means of dis-  
 continuous rate compensation, 16898  
 Feeders :  
 materials, industrial plant equipment  
 handbook, 6141  
 swine, farm building plan, 15865  
 Feeding programs (space flight), *see* Menus  
 for space flights.  
 Feeding the child with a handicap, 13416  
 Feer, Mark C., address, Nov. 14, 1966, 1936  
 Fees :  
 architect-engineer, Government-wide ad-  
 ministration of certain statutory and  
 regulatory requirements, GAO reviews,  
 9548, 16668  
 attorneys, recovery, amend interstate com-  
 merce act, hearings, 17645  
 bankruptcy filing, reallocate part, report,  
 16248  
 Federal Aviation Agency records, copying  
 and certifying, FAA regulations, 11004  
 foreign countries for visa of United States  
 passports, list, 7145  
 lockage, Welland Canal, agreement with  
 Canada, 11872  
 migratory bird hunting stamps, increase,  
 reports, 624, 12366  
 NASA cost plus award for contracting  
 guide, 16888  
 outdoor recreation, questions and answers,  
 7030



# INDEX 1967

- Fees—Continued  
 ship mortgage certified copies, reduce cost—  
 hearings, 4552  
 law, 364  
 report, 887  
 United States employees, jurisdiction of district courts over actions to recover, limitation, increase, amend Tucker act, report, 15077
- Feller, Charles E., dynamic response of gaseous-hydrogen flow system and its application to high-frequency combustion instability, 12953
- Feistel, Terrell W., flight investigation of COIN-type STOL aircraft, 15572
- Feltler, Stanley A.:  
 feldspar resources and marketing in eastern United States, 8339  
 mineral industry of New Hampshire, 2560  
 mineral industry of New York, 5118
- Feldman, Herman, relief, 266, 785
- Feldspar:  
 resources and marketing in eastern United States, 8339  
 ternary diagrams of quartz-feldspar content of pegmatites in Colorado, 1111
- Fellowships:  
 city planning and urban studies fellowship program, appropriations, extend authority—  
 law, 14910  
 reports, 12360, 14945  
 experienced teachers, elementary and secondary, for graduate study, program, 6182  
 higher education act of 1965, administration of programs, 1966, notes and working papers, 12422  
 national defense education act—  
 graduate program for pre-doctoral study, 2187  
 graduate 1967-68 programs, 4715  
 modern foreign language program, 7905  
 National Science Foundation, 8566  
 nurse, special research fellowships, pre-doctoral and postdoctoral, general information, 15711  
 postdoctoral, in educational research, 1012, 15216  
 prospective teachers, 1967-68 programs, 7906  
 Public Health Service awards, 1966 funds, 7086  
 teacher education—  
 law, 12176  
 reports, 12275, 13643, 13805  
 water pollution control research and training grants 1966 awards, list, 2274
- Felt, current industrial reports, 3170, 4336
- Felton, Jean S., survey of medicine and medical practice for rehabilitation counselor, 10128
- Felton, Joseph M., national space program, its values and benefits, 9169
- Fence posts, preservative treatment, 10165
- Fenn, David B., steady-state performance of 7-tube NaK-cooled potassium condenser, 12937
- Ferber, Ellen:  
 goodbye to birds and bees, 10932  
 voice of the silent stage, 4723
- Ferguson, Marion, how to determine nursing expenditures in small health agencies, 5437
- Fernandez, Manuel Rodriguez, *see* Rodriguez-Fernandez, Manuel.
- Fernandez, R.:  
 ice crystal growth rates and hydrate reaction kinetics, 6447  
 thermodynamics and kinetics in hydrate and freezing processes, 6446
- Fernandez-Bravo y Amat, Alberto, relief, 9201, 12234, 13489
- Fernandez-Conde, Augusto J., relief, 299, 322, 599, 864
- Fernández Noda, Esteban, relief, 310, 594, 815
- Fernando Pó, labor conditions, 5073
- Ferns, types, studies, 15601  
*see also* Grammitts.
- Ferrando, Maria Jordan, *see* Jordan Ferrando, Maria.
- Ferraro, Francesco Urga, *see* Urga-Ferraro, Francesco.
- Ferraro, Giovanni Urga, *see* Urga-Ferraro, Giovanni.
- Ferrell, James K.:  
 low pressure steam-water flow in heated vertical channel, 7420  
 two-phase flow through abrupt expansions and contractions, 7431
- Ferriani, Oscar J., jr., effects of earthquake of Mar. 27, 1964, in Copper River basin area, Alaska, 2371
- Ferries, allow use of British Columbia ferries for Alaska-bound cargo, hearing, 13851
- Ferris, James C.:  
 static stability investigation of single-stage sounding rocket, 12933  
 transonic aerodynamic characteristics of model of supersonic fighter-bomber airplane with external fuel tanks and other modifications, 1505
- Ferris, Robert G., prospector, cowhand, and sodbuster, etc., 13004
- Ferris-Prabhu, Albert V. M., relief, 9224
- Ferrites, controlled, content improves weldability of corrosion-resistant steel, 8475
- Ferroalloys, minerals yearbook chapter, 6633
- Ferrocenes, polymers, annotated bibliography, 2156
- Ferrosilicon, mineral industry survey, quarterly, 3332
- Ferry County, Wash., Republic quadrangle and part of Aeneas quadrangle, geology, 16682
- Fertal, Martin J., modal split, estimating transit usage, 7100
- Fertility, *see* Fecundity.
- Fertilizers:  
 chemistry and technology research, USSR, 15350  
 fertilization uneconomical for forage improvement in Louisiana pine plantations, 14117  
 manufacturing, industry wage survey, 12774  
 publications, price list, 7052  
 South America, mineral sources, 1110 supply, 8819  
 TVA 1967 trends, 17261  
 use in United States, by crops and areas, 1964 estimates, 14760  
*see also* names of substances.
- FES, *see* Federal Extension Service.
- Fescue foot, cattle, what to do about it, 14750
- Fetal death, *see* Still-birth.
- Feth, J. H., Lake Bonneville, geology and hydrology of Weber Delta district, including Ogden, Utah, 6400
- Fetheroff, C. W., electrolysis cell for orbital test, 2607
- Fetter, Theodore A., piggyback traffic characteristics, 8233
- Ffolliott, Peter F., occurrence of stem features affecting quality in cutover south-western ponderosa pine, 14144
- FG series, 4382, 5914-15, 17450
- FHA, *see* Farmers Home Administration—Federal Housing Administration.
- FIAT-Soviet auto plant and Communist economic reforms, report, 12291  
 print additional copies, report, 10594
- Fiber boxes, *see* Boxes.
- Fiberboard, *see* Pulpboard.
- Fiberglass, *see* Glass fibers.
- Fibering of oxides in refractory-metal matrices, 9900

**Fibers:**

- bonded, nonwoven fabrics, current industrial reports, 4336
- cotton and other fiber problems and policies in U.S., 15666
- discontinuous-fiber composites, metallurgical and geometrical factors affecting elevated-temperature tensile properties, 8498
- errata, 14451
- fluid treatment and chemical modification, patent classification definitions, 5369
- food and fiber for future, report, 13063
- food and fiber in Nation's politics, 17123
- synthetic, industry wage survey, 8317
- United States, food and fiber system in changing world environment, 18144
- vegetable, foreign agriculture circulars, 3345
- see also* names of certain plants, textiles, etc.

Fibrinolytic blood, *see* Blood.

Fibrograph, digital, for measuring length characteristics, of cotton fibers evaluation, 8834

Fibrosampler, for sampling cotton fibers, evaluation, 8834

Fibrosis, cystic, facts, 17148

Fibrous glass, *see* Glass.

Fibrous reinforcements for space applications, 11418

Fichman, Philip J., relief, 853

Fichter, Joseph H., graduates of predominantly Negro colleges, class of 1964, special report, 14625

Fichter, W. B., stresses at tip of longitudinal crack in plate strip, 14498

Fiedler, Fred E., second level management, review and analysis, 13450

Field, William D.:  
butterflies of genus *Calycopis* Scudder etc., 5309  
butterflies of new genus *Calystryma*, etc., 14537

Field bakery operations, 15947

Field CBR collective protection, 5740

Field crops, *see* Crops.

Field directory, HEW, 12619

Field employees, *see* Government officials and employees.

Field manuals, *see* names of departments, etc., issuing field manuals.

Field sanitation team training, 10264

Field seeds, supply and disappearance, 5680, 8755

Field Services Office, Commerce Dept., cooperative offices, partners in progress, 1948

Field surveys, President's Commission on Law Enforcement and Administration of Justice, 13058-62

Fiedler, William L., ionic conductivity of calcium and strontium fluorides, 6866

Fielding, G. H., BW contamination with hypochlorite, 10012

Fieno, Daniel, transport study of real and adjoint flux for NASA zero power reactor (ZPR-1), 11535

Figge, I. E.:  
crack propagation, delayed failure, and residual static strength of titanium, aluminum, and stainless alloys in aqueous environments, 6872  
empirical equation relating fatigue limit and mean stress, 9878

**Fighter planes:**

F-4, supply and maintenance support, need for improvement, Navy Dept., GAO report, 11147

F-106B aircraft flashblindness experiment, 17349

F-111B aircraft program, appropriations, 1968, hearings, 16388

variable-sweep tactical, rolling stability derivatives at subsonic and transonic speeds, 6887

**Figs:**

dried, U.S. standards for grades, 6133  
production, use, value, 1965-66, by States, 14695

FIGT, *see* Federal item identification guides.

**Fiji Islands:**

Geniostoma, description, title page and index, 17048

mineral industry, minerals yearbook chapter, 9759

new and noteworthy flowering plants, studies, 12997

plant quarantine import requirements, 17303

Filament-winding plastics, syntheses, properties, and uses of m-aminobenzyl amine (MABA), 9989

Filamentary materials, composites, high-performance, Air Force basic research, 15890

**Filaments:**

glass-epoxy fabricated plates, compressive behavior, 9895

hot tungsten, synthesis of higher order hydrocarbons, 8504

meteoroid damage to filamentary structures, 16599

microscopic, or other parts, cutting, etc., micromanipulation tool adapted to many uses, 8446

winding, fabrication techniques for fiber glass reinforced primary aircraft structures, 4222

Filippi, Cesar A., threshold reduction techniques study, 6716

Filippi, Siegfried, new Lie series method for numerical integration of ordinary differential equations, etc., 9877

Fillers (in wood, metal, etc.):  
composite weld rod corrects individual filler weaknesses, 9862

photosensitive filler minimizes internal stresses in epoxy resins, 14429

Fills, behavior of beach fill, Sherwood Island State Park, Conn., 13976

Film badges, *see* Dosimeters—Photographic film detectors.

Film boiling, *see* Boiling.

Film libraries, *see* Motion pictures.

Film slides, *see* Filmstrips.

Film strips, *see* Filmstrips.

**Films (coatings):**

complex surfaces plated by thin-film deposition in one operation, 8447

film-transfer studies of 7 ball-bearing retainer materials in 60°R (33°K) hydrogen gas at 0.8 million DN value, 2709

oxide film on metal substrate reduced to form metal-oxide-metal layer structure, 12841

permits low-force scribing, 6772

photodegradation of polymer films, surface effects, 18113

process forms effective electrical contacts on semiconductor crystals, 11471

uniform reflective films deposited on large surfaces, 5203

*see also* Monomolecular films.

**Films (coverings):**

thin films, 2d colloquium on, Budapest, Hungary, 12740

Films (metallic), *see* Metallic films.

**Films (photography):**

film, photographic, black and white, classification and testing methods, Federal standard, 11065

gas pressure feeds film into camera at high speeds, 5143

polaroid film helps locate objects in inaccessible areas quickly, 6743

*see also* Motion pictures.

**Filmsides:**

employment security and service, farm labor, etc., 12472

housing and community development, bibliography, 11204

Filmslides—Continued

- photographic, mount for use with overhead projectors, Federal standard, 16604
- Filmstrips:
  - aberrant cells, nature of cancer, 15674
  - catalog of copyright entries, 12435, 17685
  - housing and community development, bibliography, 11204
  - Library of Congress catalog, 3506
  - medicine and allied sciences, film reference guide, 13073
  - Public Health Service, 1967 film catalog, 17045
  - United States and the world, introduction to our foreign relations, 5553
- Filters and filtration, filter pack technique for classifying radioactive aerosols by particle size, final report, 10017
- see also Digital filters—Kalman filters—Light filters.

Finance:

- agricultural review, 985
- supplement, 10918
- agricultural balance sheet, 17308
- Atomic Energy Commission, 1967 report, 17403
- balanced financial policy (remarks), 2946
- banking and farm finance, present challenge (remarks), 6298
- city government, 13399
- code of Federal regulations, 6285
- combined financial statements—
  - member S & LA's of Federal Home Loan Bank System, 6249
  - members of Federal Home Loan Bank System, 16572
- daily statement of Treasury, 3183
- DSA manual, 979, 13913-914, 17693
- export financing, Export-Import Bank, 6232
- financial frontiers (remarks), 18241
- financial intermediaries' role in U.S. capital markets, 6303
- financial liquidity, monetary policy, and outlook for corporate profits (remarks), 11056
- financial management practices in Labor Department, GAO review, 8147
- financial operating data of affiliated food wholesalers, comparison, 4123
- financial protection for Federal employees, 1925
- financial statements—
  - Commodity Credit Corporation, GAO examination, 8132
  - Federal Crop Insurance Corporation, GAO examination, 4863, 5991
  - Federal Home Loan Bank Board, GAO examination, 15295
  - Federal home loan banks, GAO examination, 12586
  - Federal Housing Administration, GAO examination, 11146, 12204
  - Federal National Mortgage Association, GAO examination, 2343, 14150
  - Federal Prison Industries, Inc., GAO examination, 4864
  - Federal Savings and Loan Insurance Corporation, 1045, 4766, 7962, 11009, 15240
  - Housing Assistance Administration, GAO examination, 4875
  - southeastern Federal power program, GAO examination, 15296
  - submission by Government agencies, etc., regulations, 17267
  - Tennessee Valley Authority—
    - annual, 1647
    - GAO examination, 6375, 7604
  - Veterans Canteen Service, Veterans Administration, GAO examination, 4865
  - Virgin Islands Corporation, GAO examination, 14151
- financial summary, foreign economic assistance, 16725

Finance—Continued

- financing civil service retirement system administered by Civil Service Commission, GAO report, 9547
- financing college education, programs, etc. (remarks), 5571
- financing condominiums through FHA, 2384, 4903
- financing home purchases and home improvement under FHA programs, 16708
- financing livestock exports, 14076
- fiscal policy (remarks), 1653, 1656
- fiscal policy and national goals after Vietnam (remarks), 11883
- fiscal policy, orchestration, initiative and innovation in central banking (remarks), 9493
- forest fire control, cooperative program, financing, 9527, 15276
- General Accounting Office findings, etc., for improving Government operations, 15294, 16158
- Government contingent liabilities and assets, reports—
  - law, 513
  - law, summary, 9177
  - legislative history, 7762
  - report, 702
  - Senate amendments, summary, 4567
- government finances, GF series, 180, 1881-82, 5886-87, 7492, 10380, 13399-400, 16030-31
- governmental, 5886-87
  - correction notice, 16030
- governmental finances and employment, 1966, chart book, 1881
- highway statistics, 13101
- joint financial management improvement program, annual report, 11144
- local Government finances in selected metropolitan areas, 1882, 16031
- long term look at fiscal policy (remarks), 2952
- machine tool financing, 15730
- management system, actions to improve, U.S. Army Tank-Automotive Command, Warren, Mich., GAO report, 17810
- manufacturing corporations, quarterly report, 3794
- medical care, source book of data through 1961, selected revisions, 15685
- men and money, human resources and financial management (address), 11053
- monetary policy and municipal finance (remarks), 9494
- opportunities and risks of financing world progress (remarks), 7210
- policies for financial balance (remarks), 2953
- political (remarks), 2955
- problems in financing scientific research work, USSR, 16745
- public facility financing, 1977
- public school finance program, 1966-67, State compilations, 17724
- receipts and expenditures of U.S.—
  - combined statement, 5611
  - monthly statement, 3580
- receipts, Federal, 1967 and 1968, estimates, 10686
- receipts, selected services, monthly report, 7490
- respective roles of monetary, fiscal and wage price guideline policies in 1967 (remarks), 1965
- revenue sharing and its alternatives, what future for fiscal federalism?—
  - committee print, 13546
  - hearings, 16149
- scientific research, effective forms of financing, USSR study, 1237
- social security benefits, financing, 7123
- State and local governments, 1965-66, employee-retirement systems, 7492
- State government, 1966 summary, 10380

**Finance—Continued**  
 statistics, Federal reserve chart book, 3315  
 historical supplement, 16591  
 time deposits and financial flow, 4791  
 treasury bulletin, 3976  
*see also* Banks and banking—Credit.

**Finance Committee, Senate:**  
 additional clerical assistants, report, 4606  
 calendar, 3494  
 committee prints, 2114-15, 7803  
 hearings, 950-952, 6096-97, 7804-5, 12407, 13859, 15154, 16408-409  
 reports, 884, 901-903, 905, 911, 2094, 2099, 3097, 4584, 4596, 6086, 7787, 9271, 13775, 13797-801, 13823, 15091-93, 15104-105, 16353-358

**Finance companies:**  
 auto loan characteristics at major sales finance companies, 7992  
 consumer credit at consumer finance companies, 3141  
 mid-1965, survey, 11060  
 sales finance companies, monthly report, 3846

**Finance decisions, see** Interstate Commerce Commission.

**Financial assistance, see** Foreign aid—Grants-in-aid.

**Financial institutions, see** Banks and banking.

**Financial Management and PPBS Training Center, CSC, background, curriculum, etc., 7547**

**Financial statements, see** Finance.

**Finch, Warren L., geology of epigenetic uranium deposits in sandstone in United States, 8167**

**Finchum, R. N., extended use of school facilities, 16499**

**Fine Arts Commission:**  
 appropriations, 1968—  
 hearings, 7734, 9302  
 law, 12170  
 reports, 10560, 10766

**Finerty, Joseph M., employment and earnings, and monthly report on labor force, 3232**

**Finea, collecting, Justice Dept. policies and procedures, GAO review, 11154**

**Fink, Edw. M., chemistry, carbon compounds, classification definitions, 18133**

**Fink, F. W., corrosion in hot sea water in experimental loop apparatus, 15326**

**Fink, Marvin P.:**  
 aerodynamic characteristics of model employing sawling concept, 14465  
 aerodynamic data on large semispan tilting wing, etc., 1485, 6855, 9879, 15557

**Finland:**  
 background notes, 15755  
 economy, basic data, 1946  
 foreign trade regulations, 17481  
 independence, 5-cent commemorative postage stamp (poster), 15645  
 selling in Finland, 10461  
 USSR boundary, study, 8718

**Finlayson, Rasma, State mental health planning, 1966 final reports, 17141**

**Finnel, Tommy L., mineral resources of Mount Baldy primitive area, Ariz., 8156**

**Fins (aircraft):**  
 internally and externally finned radiators for Brayton cycles in space, exploratory study, 8405  
 turbulent separated flows investigation in vicinity of fin-type protuberances, 6857

**Fins (cooling):**  
 straight finned radiators, weight optimization, design procedure, 6781

**Florida externa Ferris, scale insect of hemlock, 17796**

**Fir:**  
 balsam, botanical and commercial range in Lake States, 8069

**Fir—Continued**  
 Christmas trees, development of plantation of high quality trees, 2292  
 defect estimation for grand fir, Douglas-fir in Blue Mountains of Oregon and Washington, 2289

**Douglas—**  
 bigcone, silvical characteristics, 14143  
 formula for total cubic-foot volume table from bulletin 201, 1092  
 labor requirements in thinning, 4837  
 simple, progressive improvement program, 8081  
 site curves, comparison, 2309  
 stands, investigating dominance, 16662  
 dwarfmistletoe parasitizing true firs in California, biology and pathology, 5685  
 forest floors and soils under true fir-hemlock stands, characteristics, 11139  
 grand and subalpine, translocation of dye in fir infested by balsam woolly aphid, 11116  
 grand fir cones, maturity indices, 9534  
 spruce-fir clearcuttings in Colorado, stocking of reproduction, 2314  
 true firs, possible grouse damage, 1090  
 white fir, winter injury among seedlings, 14107

**Fire control, see** Fires—Forest fires.

**Fire control (gunnery):**  
 equipment, Federal item identification guides for cataloging, supplements, 3293  
 trainee's guide, test equipment, 7023

**Fire Control and Prevention, National Commission on, see** National Commission on Fire Control and Prevention.

**Fire control technicians:**  
 basic electricity, trainee's guide, 1543  
 electronics, trainee's guide, 2776

**Fire departments, 2d and 3d class postal rates for volunteer fire companies, extend, report, 694**

**Fire extinguishers:**  
 carbon tetrachloride, hazards, 8151  
 dry chemical fire-extinguishing powders, determining specific surface, permeability and elutriation methods, 11678  
 fire extinguishing equipment, 13054  
 know your fire extinguishers, technical reference, 9737

**Fire-fighting apparatus:**  
 Federal item identification guides for supply cataloging, supplements, 3287  
 motorized, current industrial reports, 4332, 10355

**Fire insurance, factory mutuals, a way of doing (address), 12129**

**Fire Island National Seashore, general information, 13004**

**Fire prevention, see** Fires.

**Fire protection, see** Fires.

**Fire resistant construction of home, farm buildings, 15849**

**Fire-retardant coatings, see** Coating materials.

**Fire retardants, see** Fires.

**Fire Scan Project, see** Project Fire Scan.

**Fire Weather Service, National, see** National Fire-Weather Service.

**Firearms:**  
 injuries caused by, mandatory reporting in D.C., provide, law, 480  
 national firearms act, code of federal regulations, 11225  
 prohibit use in D.C., in certain crimes, hearings, 10644  
 safe use, facts, National Farm Safety Week, 10187  
 small arms ammunition, identification guide, 5738  
 small arms barrels, soundness requirements for cobalt-chromium alloy liners, military standard, 9378  
 State control act of 1967—  
 hearings, 12306  
 message from the President, 16161

# INDEX 1967

## Firefighting vehicles:

- aircraft fire and rescue truck, 1000-gallon, guide specification, 10246
- full-scale fire modeling test studies of light water and protein type foams, 17092

MB-5 aircraft fire-fighting and rescue vehicle, engineering observations, 9999

## Firemen (firefighters):

District of Columbia—  
examination announcement, amendment, 1912

include members in Police Department band, report, 7687

retirement benefits, equalize for totally disabled, report, 9129

salaries, increase, law, 514

survivor benefits for widows of retired members, report, 10558

## Federal employees—

premium compensation, correction of inequities—  
law, 450

report, 915

retirement, include within provisions of United States Code relating to hazardous occupations, hearing, 16429

## Fireplaces and chimneys, construction, design, etc., 8825

## Fires:

air handling systems and fire protection, 12594

apartment dwelling units, field burnout tests, 18075

## Apollo accident—

hearings, 6088-89, 9299, 10796, 12316, 12396

reports of review board, 9931, 17020

charring rate of selected woods, transverse to grain, 11132

combustibility of materials in oxygen-helium and oxygen-nitrogen atmospheres, 5706

emergency escape system, 6796

Federal Fire Council recommended practices series, 8151

Federal fire experience, 16679

fire and explosion prevention and protection, 8295

fire performance of wood, wood products, etc., publications, list, 14081

fire prevention, off the job safety, 16810

fire prevention program, cotton warehouse, 13237

fire-retardant heat insulator, dispersion of borax in plastic, 8384

full-scale fire modeling test studies of light water and protein type foams, 17092

hazard inspecting procedures in Butte County, Calif., evaluation, 14109

protection problems for special atmospheres, including oxygen, 17816

protective passenger smoke hood, aviation medical report, 14812

research and safety act of 1967—  
hearings, 10525, 13715

reports, 14934, 15103, 16257

safety programs, Federal Fire Council film library, list, 14164

salvage of fire and water damaged records, SBA, Minneapolis, Minn., 14165

ships, improve protection, amendments to International Convention on Safety of Life at Sea—  
report, 7773

text, 6062

see also Forest fires.

Firestone Tire and Rubber Co., wage chronology, 1939-66, Akron plant, 8301

Firms, see Business.

Firm, see Snow.

Fiscal policy, see Finance.

Flascua, Clifford H., pelagic fur seal investigations, 14062

Fish, George E., Jr., Clinton hematitic sandstone deposits, Butt Mountain area, Va., 12819

## Fish and fisheries:

Alabama landings, 3024, 16616

Alaska, 1965, annual summary, 9512

blood chemistry of fishes, bibliography, 17783

California landings, 3073

canned fishery products, annual summary, 8016, 9506

Chesapeake fisheries, 1965 annual summary, 9504

coastal and fresh water fishery resources, survey, report, 17628

code of Federal regulations, 9486

collections by exploratory fishing vessels, Oregon, Silver Bay, etc., in southwestern North Atlantic, 1956-60, correction, 8035

commercial fisheries abstracts, 3109

commercial fisheries, New England, 15255

commercial fisheries review, 3110

Communist China, Committee of Fishery Research of West Pacific, 7th plenary conference, 9626

conservation, career preparation, 6351

conservation notes, 15255

conservation, protection and propagation of endangered native species of fish, law, 388

cooperative fishery units—

annual report, 16626

program, 6347

current fishery statistics, CFS series, 1074-75, 3024, 3073, 3335-36, 3338, 3363, 3378, 3386, 3530, 3533, 3545-46, 3553, 3564, 3621, 3628, 3638, 3836, 3876, 3884, 3934, 4038, 8013-18, 9502-13, 11072-74, 12540-544, 14054, 16610-618, 17769-771

duty changes in fishery products resulting from Kennedy Round of GATT negotiations, 12544

ecocids, interspecific hybridization, hatchling success, pattern development, and fertility of F<sub>1</sub> hybrids, 12551

establish fishery zone, law, 381

exploratory fishing and gear research, report, 2275

fish and wildlife programs, 6348

fish, buying guide, and recipes for school lunches, quantity amounts, 15257

fish control investigations, 8033, 16624

fish distribution reports, 6349

fish, good choice for thrifty family, food value, use, recipes, 9347

fish habitat characteristics of streams, technique for sampling, 17406

fish passage report, Bonneville, The Dalles, McNary and Ice Harbor Dams, 13974

fisheries, agreement with Japan, 15794

fishery associations in United States, list, 14057

fishery bulletins, 8020, 11077

list, 8024

fishery cooperatives in United States, list, 14058

fishery industrial research, 2276, 6350, 12546

fishery leaflets, 1076-77, 8021-24, 14057-59, 15256, 17774

list, 8022

fishery marketing development series, 8025-26, 9515, 15257

fishery products—

imports and exports, annual summary, 1074, 16612

industrial, annual summary, 8015, 9507

packaged, annual summary, 8014

processed, annual summary, 11072

fishery statistics, 14069

Flathead Lake, Mont., 1961-64 investigations, 4811

Florida landings, 3338, 16611

food fish—

situation and outlook (periodical), 3341

propagation and distribution, 6349

freezing fish in home, 31

Fish and fisheries—Continued  
 fresh fish, effect of gamma rays on changes in properties, 9669  
 fresh-water fish, irradiation preservation, 1784  
 frozen fish, monthly report, preliminary, 3362  
 frozen fishery products, 3363, 9509  
 Georgia landings, 3378, 16613  
 graduate educational grants for fishery research, 1968-69, 17774  
 Great Lakes convention, amending agreement with Canada, report, 6064  
 Great Lakes, 1965 annual summary, 9502  
 Gulf fisheries, 1965 annual summary, 8018  
 hatchery at Wolf Creek Dam, establish, hearing, 10665  
 king crab fisheries, agreement with—  
   Japan, 7185  
   Union of Soviet Socialist Republics, 11857  
 Louisiana landings, 1075, 3530  
 Maine landings—  
   annual summary, 12541  
   monthly, 3533  
 marking fish with dyes and other chemicals, 4812  
 Maryland landings, 3545, 17770  
 Massachusetts landings, 3546, 12543  
 Michigan, Ohio, and Wisconsin landings, 3553, 11073  
 Middle Atlantic States fisheries, 1965, annual summary, 8017  
 Mississippi landings, 3564, 16615  
 Mississippi River fisheries, 1965, annual summary, 9513  
 monolayers for evaporation control of water, effect on insects, 7102  
 more fishing space, 7292  
 New England fisheries, annual summary, 9503  
 New England offshore fisheries, brief history, 8021  
 New Jersey landings, 3621, 12540  
 New York landings, 3628, 14054  
 North Carolina landings, 3638, 17771  
 northeastern Pacific Ocean off U.S. coast, agreement with USSR, 11858  
 northwest Atlantic, international convention of 1949, multilateral understanding, protocol, 2896  
 Oregon landings, 17769  
 Pacific Coast fisheries, 1965, annual summary, 9510  
 packaged fishery products, 8013, 9508  
 Polar Scientific Research Institute of Sea Fisheries and Oceanography, USSR, activities, 6551  
 pollution-caused fish kills, annual report, 17765  
 progressive fish-culturist, 3778  
 cumulative subject and author index, 1081  
 protein concentrate, experiment and demonstration plants, law, 415  
 publications, price list, 18149  
 radiation-pasteurization, 13348  
 rare and endangered fish of U.S., list, 2281  
 recipes—  
   fancy catfish, 8025  
   let's cook fish, complete guide to fish cookery, 9515  
   low-calorie, seafood slimmers, 8026  
   type A school lunches, quantity amounts, 15257  
 research reports, 11090, 17783  
 Rhode Island landings, 3836, 12542  
 sanitation standards for smoked-fish processing, fish-smoking establishments, 1967 recommendations, 11759  
 shrimp landings, 16610  
 smoked fish plants, steps to effective sanitation, 9514  
   errata, 16619  
 South Atlantic fisheries, 1965, annual summary, 9505

Fish and fisheries—Continued  
 South Carolina landings, 3884, 16614  
 special scientific reports, fisheries series, 8035-41, 9520, 12549, 14062-66, 16627-632, 17786  
 sport and commercial, estuarine areas, preserve, etc.—  
   hearings, 4635, 9164  
   report, 695  
 sport fishery abstracts, 3891  
 sport fishery research, 1966 progress, 12548  
 statistical digest, 14069  
 Texas landings, 3934  
 toxicity of various compounds to fishes, 16624  
 United States fisheries, annual summary, 11074  
 USSR—  
   economic-mathematical and cybernetic research at AtlantNIRO, 1202  
   fishery research on Antarctic krill, 15345  
   ichthyology, basic goals in current 5-year plan defined, 6522  
 Vietnam, off-shore fishery development project, agreement with FAO, 17238  
 Virginia landings, 4038, 16618  
 water resource projects, cost sharing grants, report, 16368  
 see also Diseases of fish—also names or classes of fish.  
 Fish and Wildlife Service:  
   circulars, 2275, 4801, 6346, 8019, 9514, 11075-76, 12545, 14055, 16619-20, 17772-773  
   list, 8023  
   fishery bulletins, 8020  
   errata, 11077  
   list, 8024  
   fishery leaflets, list, 8022  
   fishery marketing development series, 8025-26, 9515, 15257  
   press releases, 3731  
   refuge leaflets, 1078-79, 2277-79, 4803-6, 6353-55, 8027-32, 9516-19, 11079-89, 12547, 14060, 15259-265, 16622, 17775-782  
   regulatory announcements, 1080, 14061, 16623  
   special scientific reports—  
   fisheries series, 8035-41, 9520, 12549, 14062-66, 16627-632, 17786  
   wildlife series, 4809-10, 6357, 12550, 14067-68, 15268, 16633-635  
 Fish as food, see Fish and fisheries.  
 Fish culture, see Fish and fisheries.  
 Fish disease leaflet FDL (series), 4802  
 Fish hatcheries, see Fish and fisheries.  
 Fish meal:  
   production—  
   annual summary, 16617  
   monthly reports, 3335  
 Fish nets, trawl, North Atlantic, 15256  
 Fish oil:  
   production—  
   annual summary, 16617  
   monthly reports, 3335  
 Fish ponds, rearing marketable channel catfish, 6356  
 Fish sticks and fish portions:  
   annual summary, 9511  
   current fishery statistics, 3336  
 Fisher, Douglas M., displacement gage for crack-extension measurements, 1513  
 Fisher, H. H., crops research, Department of Agriculture, cacao clone collection, 10148  
 Fisher, Joseph L., perspective on natural resources and human resources, 6597  
 Fisher, Lloyd J., water-landing characteristics of model of winged misalle, 9872  
 Fisher County, Tex., soil survey report, 2877  
 Fisheries, see Fish and fisheries.  
 Fishermen Protective act of 1967, report, 15008



- Fishermen's and fish shore workers' unions :  
list, 14059  
rights in sale of fish, etc., 945  
Fishery marketing development series, 8025,  
9515, 15257  
Fishery products, *see* Fish and fisheries.  
Fishery Services Division :  
annual reports, 16625, 17784  
cooperative fishery units, annual report,  
16626  
Fishes, *see* Fish and fisheries.  
Fishing, *see* Fish and fisheries.  
Fishing gear, research, report, 2275  
Fishing vessels :  
construction for nonsubsidized fishing  
fleets, hearing, 946  
Miller Freeman, fishery research of U.S.,  
description, etc., 11076  
Oregon, Silver Bay, Combat, and Pelican,  
exploratory collections made in south-  
western North Atlantic, 1956-60, cor-  
rection, 8035  
United States, foreign seizures, amend  
act—  
hearing, 15045  
report, 15008  
Walter Herwig, West German research  
vessel, description, 17772  
Fishmeal, *see* Fish meal.  
Fishponds, *see* Fish ponds.  
Fission, *see* Nuclear fission.  
Fission products, nuclides, identification for  
dose calculations following reactor acci-  
dent, 13349  
Fissionable materials systems critical pa-  
rameters, and nuclear safety, USSR book  
excerpts, 15408  
Fitsock, John F., wages and related benefits,  
metropolitan areas, 1965-66, occupational  
earnings, supplemental practices, 5036  
Flitt, Alfred B., nomination, hearings, 17639  
Fittings (auxiliary parts) :  
conduit, Federal item identification guide,  
15183  
Federal item identification guides for  
supply cataloging, supplements, 3287  
instrumentation fittings pressure testing,  
portable fixture facilitates, 11458  
FitzSimmons, V. G., dry-film lubricants from  
molybdenum disulfide bonded with micro-  
fibrous boehmite, 10001  
Fitzsimons General Hospital, Medical Re-  
search and Nutrition Laboratory, reports,  
120-122, 5753-54, 7412-15, 10295, 14806-  
807  
Fix new clothes to make them last longer,  
7287  
Fixtures (for offices, etc.) :  
fixture tests bellows reliability through  
repetitive pressure/temperature cycling,  
11448  
Flack test, 7360  
Flagella, structural organization and bio-  
chemical basis of movement, USSR study,  
12696  
Flagg, E. E., off-design performance of axial  
flow turbines, 8411  
Flags :  
national flags and ensigns, poster, 14569  
our flag, story, etc., 519  
print as House document, reports,  
13652, 13819  
pennants and customs, naval service,  
change, 18103  
State flags, reproductions, 519  
United States—  
presentation for deceased members of  
National Guard and Ready Reserve,  
report, 16229  
prohibit desecration—  
hearings, 10661  
reports, 12257, 12264  
Flame photometry, *see* Photometry.  
Flame proofing, household fabrics, 10177  
Flames :  
characteristics causing air pollution,  
production of nitrogen oxides and car-  
bon monoxide, 8378  
flame fuels, Army technical manual, 105  
flame spectroscopy analytical applications,  
1800-1960, 8519  
Flaming Gorge Dam, general information,  
11772  
Flaming Gorge Recreation Area, general  
information, 15611  
Flammability, *see* Inflammable materials.  
Flammable fabrics, *see* Textiles.  
Flammable gases, *see* Gases.  
Flamsteed, AIC 75A, lunar chart, 7326  
Flanges :  
axially misaligned, spherical joint con-  
nects, 15543  
feed-thru, useful in vacuum, applications  
to cryogenic temperatures, 6778  
spherical pipe joint delivers loads equally  
to mating flange, 6823  
Flaps (aircraft) :  
blowing over flaps for boundary-layer con-  
trol, investigation over moving ground  
plane of transport model, 14477  
Flashblindness, *see* Blindness.  
Flathead Indians :  
Confederated Salish and Kootenai Tribes  
of Flathead Reservation, funds, dispo-  
sition—  
law, 10480  
reports, 7779, 9115  
Flathead Lake, fishery investigations, 4811  
Flatjacks, deformation methods, deep mine  
stress determinations, 6676  
Flatware, stainless-steel, Tariff Commission  
reports, 1646, 17255  
Flavoring extracts, synthetic flavor, produc-  
tion and sales, 14703  
Flax, Lawrence, ultrasonic attenuation for  
free electrons in presence of magnetic field,  
2705  
FLC, *see* Federal Library Committee.  
Fleas, controlling, 5633  
Fleet, *see* Merchant marine.  
Fleet Marine Force, Medical Department  
support, 5092  
Fleet Marine Force manual FMFM series,  
2533, 6624-25, 8331, 12781-782, 15460,  
16839-841  
Fleming, Joe W., II, nomination, hearing,  
6125  
Fleminger, Abraham, taxonomy, distribu-  
tion, and polymorphism in Labidocera jol-  
lae group, etc., 8544  
Fletcher, Herman S., manual method for  
control of thrust axis during planar as-  
cent from lunar surface to circular orbit,  
1490  
Flexible liners for underground support,  
5128  
Files :  
Baluchistan melon fly, new plant pest,  
8841  
caddis, neotropical—  
Mexican and Central American species,  
11611  
species described by Ulmer and Brauer,  
5311  
types of species described by Banks and  
Hagen, 14542  
Diptera (Anisopodidae and Bibionidae)  
from Dominica, new species, 6962  
Diptera, Empididae, Neriidae, Platystoma-  
tidae, Sepsidae, Muscidae, from treetops  
in Malaya, 5313  
Drosophila, metabolic rate and longevity—  
at different population densities, 9923  
remarks and review of literature, 9925  
eradication agents investigated, USSR  
study, 4967  
genus Harmatonia (Diptera, Dolichopodi-  
dae), 12999  
house fly, how to control it, 1700



**Flies—Continued**

pine sawfly *Neodiprion excitans* Roh, description, control, etc., 11104  
soldier fly larvae in America north of Mexico, 6957

**Flight:**

aerospace safety (periodical), 2993  
alcohol & flying don't mix, 14811  
blind flight instrument, non-gyroscopic, in-flight response, 141  
breathing in flight, the higher you fly the less air in the sky, 8920  
characteristics—  
  aspect-ratio-6, conical-parawing utility vehicle model, wind tunnel investigation, 5229  
  supersonic transport during landing approach with jet transport in-flight simulator, 12926  
dynamic behavior of ballasted sphere at Mach number 0.4 to 14.5, 18029  
electronic control systems, lunar-landing research vehicle, operational experience, 1496  
entry flight aerodynamics from Apollo mission AS-202, 17009  
fluid flight path control system, study, 16890  
flying helicopters over mountains at night, guidance systems tested, 8089  
free-flight characteristics of ground-effect machine, 9880  
free-flight drop-test, paraglider configuration having large tapered leading edges and keel, 1475  
general aviation flight plan, miscellaneous statistics, 7952  
high-altitude, decompression sickness, 14778  
inflight biochemical responses utilizing parotid fluid collection technic, determination, 4187  
information, civil aviation, Government publications, lists, 7059  
information manual, international, 3435, 10244A  
  amendments, 4189, 15903, 17365  
information publications, dates of latest editions, 3192  
inspection manual, changes, 1082, 944S, 16563  
instructors, certification, Federal aviation regulations, 1040, 4758, 6239, 7949, 10991, 12494, 14005, 16554  
investigation, landing task in jet trainer with restricted fields of view, 11553  
low speed, V/STOL height control requirements under visual conditions, 11524  
MAC flyer (periodical), 3531  
maneuver speed increases of SST configuration in relation to speed margins—  
  simulator investigation, 16972  
mechanics, application of programming to optimization problems, 11572  
military manuals, prototype specification, development, 2784  
of flight and bold men, 5704  
performance of non-instrument-qualified light-aircraft pilots during instrument flight, stability augmentation system, effects, 11519  
pitch maneuver speed margins for supersonic transport configuration with variable-sweep wing, investigation, 17000  
rules, Federal aviation regulations, 2236, 7951, 10995, 12495-496, 14006  
simulated altitude and aerospace flights, normal human serum parameters, 8468  
test, XV-11A aircraft, description, etc., 11997  
testing of aircraft, theoretical principles and modern methods, 8509  
training, air navigation, Air Force manual, change, 13254

**Flight—Continued**

training, under cold war GI program—  
  hearings, 10859  
  law, 16133  
  report, 10792  
yaw coupling in turning maneuvers of large transport aircraft, 11494  
see also Aircraft—Astronautics—Instrument flying.  
**Flight crews:**  
  aircrew morale, factors affecting, 2d study, 4184  
  aircrew station vision requirements for military aircraft, military standard, 16470  
  aircrew survival equipmentman (PR) 3 & 2 and (PR) 1 & C, supplement, 11652  
  members other than pilots, certification, Federal aviation regulations, 7950, 10992  
  station signals, military standard, 17700  
**Flight engineers, written examination guide,** 2282  
**Flight navigators, see Aviators.**  
**Flight simulators:**  
  F-4C, flashblindness experiment, 1738  
  jet transport, determination of flight characteristics of supersonic transports during landing approach, 12926  
  research, for investigating jet transport handling qualities and airworthiness criteria during take-off, validation, 1476  
  yaw coupling in turning maneuvers of large transport aircraft, study, 11494  
**Flight Standards Service, Maintenance Division, general practices and procedures, FAA handbook, 16560**  
**Flint, Oliver S., Jr., neotropical caddis flies,** 5311, 11611, 14542  
**Flint Hills, Kans. and Okla., bluestem and Osage pasture report, 14692**  
**Flood, Daniel J., Isthmian Canal policy, etc. (addresses), 520**  
**Flood control, see names of certain rivers.**  
**Flood insurance, see National flood insurance.**  
**Flood season flow, Columbia River near The Dalles, 3907**  
**Floods:**  
  Columbia River, flood season flow near the Dalles, 3907  
  control improvements, rivers and harbors, compilation—  
    departmental edition, 1025  
    document edition, 516  
  control, laws relating to, compilation, 1989  
  control, rivers and harbors—  
    and multi-purpose projects, public works authorizations—  
      law, 493  
      report, 698  
  omnibus bill, 1966, hearings, 751  
  emerging program for managing losses, 13162  
  Fairbanks, Alaska, Aug. 1967, report, 17675  
  flood-plain planning, information, 9567  
  floods and flood warnings, general information, safety rules, etc., 7936  
  floods of 1964 (series), 15314  
  hydrologic performance of floodwater retarding structures during Colorado storms of June 16-17, 1965, report, 14651  
  measurements of peak discharge of streams by—  
  indirect method, techniques, 11184, 14176  
  slope-area method, techniques, 11185  
  northwestern Montana, 15314  
  Nov. and Dec. 1965 in southern California, 1115  
  prevention, authorized watersheds, 14650  
  routing, SCS national engineering handbook, 10087

## Floods—Continued

- United States, magnitude and frequency—
- Missouri River basin above Sioux City, Iowa, 1129
- Pacific slope basins in California, 11188, 14177
- South Atlantic slope and eastern Gulf of Mexico basins, Ogeechee River to Pearl River, 2374
- waterflood performance, theoretical and field, Kane oilfield, Pa., 9769
- errata, 12814
- see also names of rivers, etc.
- Floor coverings, 18th century America, 14530
- Floors and flooring, raised floor systems, Army technical manual, 10272
- Flora, see Intestinal flora—Skin flora.
- Florence County, Wis., Mequoninee Iron-bearing district, geology, 6398
- Flores, Paul S., basic data on economy of Mexico, 14882
- Flores, Y. Marjorie:
  - clerk-hire payroll status, investigation—hearings, 4544
  - report, 4517
- Flores-Vasquez, Carlos R., relief, 10549, 13780, 14896
- Floriculture, marketing and other economic information, bibliography, 7885
- Florida:
  - census of manufactures, 1963, area statistics, 1835
  - census of mineral industries, 1963, area statistics, 5825
  - climatological data, 3096
  - conveyance of real property to, hearing, 2042
  - county business patterns, 4309, 13368
  - drilling on continental margin (series), 15311
  - east coast, lights and fog signals, list, 5331, 9972, 14578
  - eastern, coastal warning facilities chart, 8790
  - electric rate book, 11020
  - Gulf County Canal, Gulf Intracoastal Waterway, engineer report—departmental edition, 2269
  - document edition, 1998
  - landings, fish and shellfish, 3338, 16611
  - marketing vegetables, 1966 summary, 7839
  - mineral industry, minerals yearbook chapter, 5110
  - northern, Gulf Series in subsurface, 16692
  - precipitation data, hourly, 3401
  - sandhills, loss of topsoil slows slash pine seedling growth, 14119
  - seismic reflection profiles along drill holes on continental margin, 15311
  - slash pine, summer planting shows promise, 8118
  - south, slash pine—
    - comparative fire resistance of 2 seed sources, 9540
    - performance of 2 varieties, 9543
  - west coast, Gymnodinium breve, 1964-65, distribution and occurrence, 8039
- Florida Keys, national wildlife refuges, birds, list, 17780
- Florissant Fossil Beds National Monument, establish, report, 15005
- Florists, retail industry, graphic view, marketing and management practices, 13228
- Flosmaris, see Sea anemones.
- Flotation:
  - continuous, of fluorspar from calcareous Illinois ore, 14339
  - hematite ores of Marquette Range, Mich., laboratory and pilot plant development, 14335
  - methods, use for reexamination of non-magnetic taconite occurrences, 14346
  - selective, of Illinois ore, 11382
- Flotation characteristics of aircraft passenger seat cushions, 137

## Flounders, radiation-pasteurization processes, 13348

## Flour:

- domestic wheat flour bulletin, 3214
- export wheat flour—
  - port bulletin, 3253
  - price bulletin, 3254
- Flour mills:
  - milling industry, organization and competition, revised page, 5297
  - products, current industrial reports, 3169, 14828
- Flow:
  - accelerated boundary layer measurements near Mach 1, 8497
  - air, equations for rapid machine computation of equilibrium composition, and derivatives for flow-field calculations, 16973
  - airflow, high-temperature dissociated, effects of nitrogen injection into boundary layer on graphite surface, 12964
  - apparatus with glass electrodes, 12734
  - axial-flow—
    - compressor-inlet stages under high loading, aspect ratio and curvature variations, 9916
    - liquid-core nuclear rocket employing radiation heat transfer, heat- and mass-transfer characteristics, 14497
    - pump, 2-stage, with tandem-row inlet stage, blade-element performance, 11513
    - turbines, off-design performance, analytical procedure and computer program, 8411
  - boundary-reflected-disturbance lengths, determination in Langley 16-ft. transonic tunnel, 16991
  - characteristics of gas flowing axially through constricted arc, numerical calculations, 12955
  - choked inlet, characteristics for turbojet engine, 11499
  - cold and arc heated, gaseous core nuclear rocket mixing characteristics, simulation, 12848
  - concentration measurements of injected gas in supersonic stream, 8489
  - condensing mercury flow in 0- and 1-G environments, photographic study, 12939
  - coupled vibrational-dissociational flows of oxygen over wedge, effects of measured dissociation-rate constants, interpretations, 12943
  - electron, in low-density argon gas including space-charge and elastic collisions, 14490
  - exhaust, deflected, and clustered rocket engines effects, 1422
  - expansion and flow characteristics of initially saturated sodium, potassium and cesium vapors, 2717
  - fields about delta and double-delta wings, at low speeds, 6724
  - fluid—
    - forces on sphere moving steadily along circular path in viscous fluid, 10258
    - in pipeline, forced discontinuous oscillations, 6912
    - small volume, miniature valve accurately controls, 5142
    - ultrasonic energy effects, in porous media, 14336
  - free-molecule—
    - and surface diffusion through slots and tubes, summary, 8508
    - microscopic spheres in, drag coefficients, 11407
  - frequency response of forced-flow single-tube boiler, 12952
  - gas in chemical nonequilibrium, numerical integration methods for computing, 15568

## Flow—Continued

- gaseous-hydrogen system, dynamic response and application to high-frequency combustion instability, 12953
- hot wire techniques in low density, flows with high turbulence levels, study, 6841
- hydrodynamically rough surfaces, roughness-concentration effects, 4892
- hypersonic—
  - free-stream atom concentration, use of self-calibrating catalytic probes to measure, 11408
  - transition fixing, 18011
  - viscous, past slender cone, 9927
- incidence and Reynolds number effects on force characteristics of family of flat-front cylinders, 9903
- irrotational, of frictionless fluids, mostly of invariable density, 11682
- isentropic, solutions for reacting gas mixtures in thermochemical equilibrium, 16979
- jet, effect on refraction of sound, 14389
- laboratory studies of open-channel flow (series), 4892
- laminar—
  - analysis of film boiling from horizontal wire, 14456
  - and superlaminar regimes, journal bearings, steady-state and dynamic properties, 9803, 12849
  - and turbulent, friction coefficients, correlation with ratios of surface bulk temperature, 17014
  - separations, using Crocco-Lees mixing parameter, analytical method, investigations, 9806
  - steady state, boundary conditions for stainless steel coiled-capillary viscosimeter, 14350
- liquid-metal flow, heat-transfer analysis in rectangular channels with heat sources in fluid, 6883
- local measurements in turbulent flows through cross correlation of optical signals, 8462
- low rate flow switch can be used for gas or liquid, 8477
- methods for predicting in shock layer over bodies at small angles of attack, 11507
- nonwetting, condensing mercury flow in horizontal, sodium-potassium-cooled tubes, heat-transfer, experimental investigation, 11541
- open-channel, free surface instability correlations, 4892
- parametric study of advanced multistage axial-flow compressors, 11419
- photographic method measures particle size and velocity in fluid stream, 6826
- properties and drag coefficients family of blunt bodies, 18056
- radial-flow gas generator, design and fabrication, 8409
- rarefied, effect of hypersonic viscous drag on cones, 12949
- rotor-inlet flow conditions, control by guide vanes, 5275
- secondary jets from 2-dimensional nozzles, investigation for hypersonic control application, 5266
- separated and attached boundary layers, on ablating and nonablating models at Mach 13.8, 12954
- steam-water in heated vertical channel, final report, 7430
- stream, amount of contaminant in, effectively controlled by valve, 6838
- superlaminar, between nonconcentric rotating cylinders, 12852
- supersonic—
  - gas flow around blunt bodies, 12974
  - mixing of hydrogen and air, 9807
  - oscillating cone problem solved by small perturbation techniques, 6849

## Flow—Continued

- supersonic—continued
- three-dimensional unsteady potential, flutter analysis of flat rectangular panels, 6910
- wings and wing-body combinations in, integrated approach to analysis and design, 1493
- tension shell configurations, investigations, 5270
- test device fits into restricted access passages, 9840
- thermoviscous media, propagation of waves of finite amplitude, 1434
- through turbines, computer program performs, analysis, 1472
- transient flow subsequent to diffraction of normal shock wave by sphere, 17015
- turbulent—
  - drag reduction by dilute polymer solutions, 14592
  - magnetohydrodynamic, in prismatic and cylindrical pipes, 11571
  - pipe flow of Newtonian fluid, injection of drag-reducing fluid, 14398
  - separated, investigation in vicinity of fin-type protuberances, 6857
- two-phase—
  - metastable state, study, 6449
  - pseudo-sonic velocity and pseudo-Mach number concepts, 2712
  - through abrupt expansions and contractions, final report, 7431
- upstream discontinuities influence on acoustic power radiated by model air jet, 6714
- velocities and streamlines, calculating for 2-dimensional, incompressible flow in axial blade rows, 5245
- velocity measurements, tracer-spark technique, structure of spark columns in hypersonic stream, 12856
- viscous, singular perturbation problems, asymptotic expansions method, 9883
- vorticity meter, non-rotating, 16910
- see also* Vortex flow.
- Flow controllers, throttling elements in flow of compressible gas, USSR study, 4962
- Flow of water, *see* Hydraulics.
- Flowers, L. C., reverse osmosis membranes containing graphitic oxide, 6444
- Flowers:
  - demand for flowers-by-wire, 10179
  - growing flowering annuals, 15853
  - insects, control, 17307
  - production and sales, etc., 10108
  - see also* Floriculture—Horticulture.
- Flowmeters:
  - circuit automatically calibrates flowmeter against liquid-level gage reference, 17986
  - laser Doppler, measures gas velocity, 6847
  - liquid-hydrogen turbine type, simulation of calibrations using high-pressure gas, 5251
  - low gas-flow rates, measuring and recording, 2677
  - measures flow rates of high temperature fluids, 2650
  - turbine type—
    - in liquid hydrogen, performance, 2728
    - theoretical model for determining sensitivity, 12905
  - use in determining mix ratio for viscous adhesives, 17988
- Flue-cured tobacco, *see* Tobacco.
- Flue-Cured Tobacco Cooperative Stabilization Corporation, operations, hearings, 15013
- Fine dust:
  - fly ash—
    - coagulant aid in water treatment, 2573
    - utilization, symposium, proceedings, 14329

- Flue dust—Continued
  - germanium and gallium extraction from coal fly ash and phosphorus due dust, 9789
- Fluent handling material, *see* Handling equipment.
- Fluid amplifiers:
  - state-of-the-art report, bibliography, 11400
  - use for digital computation systems, feasibility study, 12907
  - see also* Amplifiers.
- Fluid flow, *see* Flow.
- Fluid logic control circuit operates nutator actuator motor, 6759
- Fluid power, Navy training course, 5338
- Fluid process, fluid handling, classification definitions, 18126
- Fluid state hydraulic damper, 10286
- Fluidic oscillator used as humidity sensor 8473
- Fluidic systems design manual, 15955
- Fluidization, fluid-bed fluoride volatility process recovers uranium from spent uranium alloy fuels, 9793
- Fluids:
  - boiling in discrete bubble region, effects of fluid properties and gravity level, 15562
  - cooling-lubricating, Hungarian research results in development for metal-working, 14232
  - electromechanical instrument continuously measures density of flowing fluids, 9844
  - electrostatic hazards in fluid system, test instrumentation for evaluating, 11474
  - equilibrium critical phenomena, 1521
  - fluid power, Navy training course, 5338
  - high temperature, flow rates, measured with flowmeter, 2650
  - homogeneous mixture, stationary device produces, 5221
  - hydraulic fluid serves as mandrel for small diameter refractory tube drawing, 5151
  - improved control circuit operates on low power input, 9627
  - injection of drag-reducing fluid into turbulent pipe flow of Newtonian fluid, 14398
  - non-destructive fluidic control device, research, 11409
  - planetary gear system to control fluid mixture ratio, conceptual stage, 5201
  - thermodynamic properties, calculating from empirical equation of state, 9776
  - see also* Body fluids.
- Flukes, Trematoda, index-catalog, 13205
- Flumes, transport of coarse sand, 16695
- Fluorescent antibodies for rickettsia detection, USSR, 12666
- Fluorescent excitation using isotopic X-ray emission, 5779
- Fluorescent lamps, *see* Electric lamps.
- Fluidization:
  - census, 13074
  - National Dental Health Assembly emphasis, 5449
- Fluorides:
  - fluid-bed volatility process recovers uranium from spent uranium alloy fuels, 9793
  - fused-fluoride lubricant coatings, additions, for reduction of low-temperature friction, 5265
  - xenon, as fluorinating agents, 12836, 12839
- Fluorination:
  - beryllium, kinetics, 12928
  - xenon fluorides as fluorinating agents, 12836, 12839
- Fluorine:
  - balance, determination in electrolysis of aluminum, USSR study, 9645
  - fluorine and fluorine-oxygen mixtures in rocket systems, handling and use, 11425
  - (d,  $\alpha$ ) reactions on fluorine 19, interpretation, 9873
  - xenon forms stable compound, 5139
- Fluorocarbons, gamma radiation effect on reaction of anthracite with fluorine and chlorine, 2585
- Fluorospars:
  - continuous flotation from calcareous Illinois ore, 14339
  - Eastern States production, consumption, etc., 16853
  - mineral industry survey, quarterly, 3340
  - New Mexico deposits, 2540
  - production, 1966, preliminary report, 5103
  - selective flotation of Illinois ore, 11382
- Flutter (aircraft):
  - comparison of panel flutter results from approximate aerodynamic theory with results from exact inviscid theory and experiment, 1480
- flat rectangular panels, analysis based on 3-dimensional supersonic unsteady potential flow, 6910
- flexible, towed tension shells, 9818
- propeller-rotor whirl, review, 12971
- towed rigid decelerators, theory and tests, 9814
- Flux:
  - crystal microbalance measures condensable molecular fluxes, 6744
  - infrared radiation from air to underlying surface, 2972
- Fly ash, *see* Flue dust.
- Flyby measurements of profiles of water vapor, particulate matter, and carbon dioxide in Martian atmosphere, 15569
- Flying, *see* Flight.—Instrument flying.
- FM (radio), *see* Radio frequency modulation.
- FM carrier deviation measured by differential probability method, 12917
- FMC SP series, 2246-47, 6258-60, 7968-72, 9456, 11016, 16577-579
- FNMA, *see* Federal National Mortgage Association.
- Foam:
  - aerobic-bacteria culture apparatus employing new foambreaker, 10007
  - fractionation of inorganic solutions, 12642
  - light water and protein type foams, full-scale fire modeling test studies, 17092
  - sulfur, low density, preparation of, 17379
- Foam spray-dried milk, *see* Milk.
- Foerster, Edward F., heat content of some blast-furnace and synthetic slags, 6675
- Fog:
  - dispersal experiments using propane, Walla Walla, Wash., 11984
  - forecasting, use of atmospheric-electricity recordings, 8590
  - improving visibility during periods of supercooled fog, 7381
  - photographing water droplets to measure size, 4202
  - preventive compounds, military standard, 16471
  - project fog drops, warm fog properties and fog modification concepts, 6712
- Fog signals:
  - Naval Oceanographic Office, list—
  - Baltic Sea with Kattegat, etc., 1539, 7005, 11645, 18101
  - British Isles, etc., 5334, 11644
  - Europe and Africa, west coast, etc., 1538, 5333, 11643, 18100
  - Greenland, etc., 5331, 9972, 14578
  - North and South America, west coast, etc., 1537, 7004, 11642, 18099
  - Norway, Iceland, and Arctic Ocean, 5335, 8572
  - Pacific Ocean, western, etc., 5332, 9973, 14579
- Fogarty, John E., memorial services, 9030
- Fogel, Sander H., address, June 16, 1966, 8045
- Foley, James M., shipments of liquefied petroleum gases and ethane, 15484
- Folger, John K., education of American population, 14833

Foliage, see Leaves.  
 Folklore, classification, Library of Congress, 5086  
 Folkman, William S., evaluation of fire hazard inspection procedures in Butte County, Calif., 14109  
 FOMC, see Federal Open Market Committee.  
 Fontana, Anthony, effect of planetary albedo on solar orientation of spacecraft, 16985  
**Food:**  
     additives, FDA's life protection series, 9522  
     affiliated wholesalers, comparison of financial operating data, 4123  
     anticipating year 2000 (address), 15844  
     Army adviser, technical manual, 14802  
     background on farm and food prices, 15845  
     bacteriological examination of utensils, etc., procedure, 17164  
     buying, how to use USDA grades, 5671  
     code of Federal regulations, 6276-79  
     consumption, households in United States, spring 1965, preliminary report, 15826  
     daily guide, some choices for thrifty families, 7837, 9333  
     donated for distribution abroad—  
         processing claims against voluntary relief agencies for loss on misuse, GAO report, 12589  
         transportation costs, GAO review, 9550  
     donation programs administered by nonprofit voluntary relief agencies, extent of audits, GAO report, S149  
     East European industries, translations, 3954  
     family stockpile for survival, 1697  
     farm food marketing bill and its components, 6170  
     fish, situation and outlook (periodical), 3341  
     food and agriculture act of 1965, amend, report, 15087  
     food and fiber for future, report, 13063  
     food and fiber in Nation's politics, 17123  
     food and people, what we can do (remarks), 1694  
     food and your weight, 14744  
     food costs, farm prices, information relating to agriculture, 13694  
     food, drug, and cosmetic act—  
         amended, text, 1083  
         enforcement and compliance, FDA report, monthly, 3268  
         notices of judgment, 3644  
         requirements guide for foreign manufacturers, etc., 17790  
     food for fitness, daily guide, 10175  
     food for freedom—  
         monthly news report on activities under PL 480, 3342  
         program (address), 26  
     food for peace act of 1966, law, 512  
     food for progress in Latin America, report, print additional copies, report, 12241  
     food for the young couple, 15852  
     food service management, Air Force manual, 8857  
     food we eat, 7279  
     fortified foods, special dietary foods, FDA fact sheet, 6359  
     freezing, combination main dishes, 17313  
     fresh rapid decompression and exposure near vacuum conditions, 1735  
     gamma irradiated, effect on monkeys, USSR study, 6371  
     Government-donated, distribution in Pennsylvania, GAO report, 6381  
     grade names used in USDA, list, 14737  
     help developing countries to increase production, picture story, 17332  
     home canning, helpful Government publications, list, 15673  
     how safe is our food? 9523  
     hunger is ahead in race between hunger and hope, picture story, 17331  
     import detentions, report, 3820

**Food—Continued**  
     India, increasing supply—  
         hearings, 7792, 9138  
         law, 9037  
         reports, 7783, 9083, 9085  
     India, to stave off threat of famine, proposal that U.S. join International group to help, message from the President, 5996  
     irradiation—  
         check list of cost considerations (address), 5807  
         food products, installation for, USSR study, 9663  
         program, review, hearing, 1975  
         radiation preservation, conference, 13318  
         radiation preservation, developing technology of irradiation (remarks), 4242  
         radiation preservation symposium, 1783  
         selected products in Atomic Energy Commission's low-dose program, cost-benefit study, 10302  
         6th annual AEC contractors' meeting, 5768  
     Latin America, food for progress, report on agricultural development, 13701  
     manufacturing, structure, report, erratum, 5298  
     marketing industries, recent and prospective structural changes, 988  
     marketing, special studies, errata, 9947  
     national food buyers quiz, questions and answers, 963  
     national food situation, 3596  
     needs and U.S. agriculture in 1980, analysis of land, labor and capital requirements, etc., 17122  
     new food aid program, general information, 4127  
     nonperishable, savings attainable in use and pricing, Defense Dept., GAO report, 2352  
     nutritious food on emergency basis to any individual to prevent human suffering, provide—  
         hearing, 17587  
         report, 15080  
     operations reference manual, increments, 15640-641  
     organizing food training program, 17722  
     perishable, storing in home, 13225  
     pesticides, residues in food, report, 15274  
     plentiful food, PF series, 3690  
     potential of world (remarks), 1695  
     preparation and serving equipment, Federal item identification guides for supply cataloging, supplements, 3292  
     preparation and serving in garrison mess, Army technical manual, 7397  
     preservation of foodstuffs by sublimation method, USSR study, 12665  
     price changes, investigation (statement), 52  
     prices, what makes food prices? 2173  
     private labels, frequency of use by distributors, errata, 9947  
     products—  
         marketing bill, 987  
         United Arab Republic import market, 1947  
     protection, environmental health training program research grants, 5463  
     publications, price list, 17132  
     retail prices by cities, 3245  
     retailers, encourage your low-income customers to take part in food stamp program, 17330  
     retailing by discount houses, 5652  
     retailing, what retailers should know about perishable agricultural commodities act, 8843  
     sample menus and food list for week based on USDA economy family food plan, 10157  
     science and food for freedom, 13217

## Food—Continued

- service employees under fair labor standards act as amended, 7225
  - service in institutions in East and Midwest, 11935
  - situation in United States (address), 30
  - standards, Codex Alimentarius Commission, U.S. delegates, etc., 2136, 9353
  - storing at home, aid to extension and village workers in many countries, 14022
  - travel a new world of food, see the U.S.A., 17279
    - French edition, 17275
    - German edition, 17278
    - Portuguese edition, 17276
    - Spanish edition, 17280
  - United States, food and fiber system in changing world environment, 18144
  - USDA standards, list, 13215
  - wholesale food distribution facilities—
    - Baltimore region, 5650
    - Chicago, 7278
    - Huntington, W. Va., 4
  - wild animals as source, 4810
  - world needs (paper), 16496
  - world problem—
    - address, 7258
    - President's Science Advisory Committee reports, 11706-707
  - world situation—
    - address, 30
    - prospects for grain production, consumption, and trade, 15209
  - world supply, panel reports, 11706-707
  - young scientists look at food, nutrients, etc., 12561
  - see also Canned foods—Menus for space flights—School lunches—also names of foods.
- Food additives:**
- chemistry and technology requirements of food additive petitions, FDA guidelines, 2285
  - FDA's life protection series, 9522
  - Food and Agriculture Organization of United Nations, off-shore fishery development project for Vietnam, agreement, 17238
- Food and Drug Administration:**
- FDA fact sheet, 6359
  - FDA investigator, career opportunities, 11095
  - FDA papers (periodical), 4814
  - FDA publications, 4815, 6360, 8045, 12561-562, 14074, 15272, 17790
  - FDA report on enforcement and compliance, monthly, 3268
  - FDA's life protection series, 9522-23, 12561-562, 15272
  - guidelines for chemistry and technology requirements of food additive petitions, 2285
  - how FDA works for you, 4815
  - laboratory sites, selection procedures, hearings, 15032
  - opportunities for—
    - chemists, 11093
    - clerk typists and stenographers, 8046
    - inspectors, 11094
    - microbiologists, 11096
  - poster series, 16639
  - radio-TV packet (periodical), 3804
- Food and Fiber, National Advisory Commission on, see National Advisory Commission on Food and Fiber.**
- Food, drug, and cosmetic act, see Cosmetics—Drugs—Food.**
- Food for fish:**
- Abernathy salmon diet, test of components, 16636
  - caloric and vitamin levels of salmon diets, studies, 8042
  - channel catfish fingerlings response to different levels of nutrients, 8042
- Food for livestock:**
- cattle diets on native and seeded ranges in ponderosa pine zone of Colorado, 6369

## Food for livestock—Continued

- feed market news, weekly, 3330
  - feed situation, 3331
  - feed statistics through 1966, feed grain, corn, etc., 17333
  - forage fed to milk cows, 11880
  - livestock-feed relationships, 1909-65, supplement, 1720
  - malnutrition of young cattle, effect on feed utilization, etc., 14765
  - medicated feeds, use carefully and wisely (poster), 16639
  - milk cows, roughage fed, 1966 summer season, 2940
- Food for poultry, collective bargaining groups for feed prices in California, 7944**
- Food lockers, see Cold storage.**
- Food preservation, see Food.**
- Food processing, meat products, new technological methods, 6546**
- Food sanitation inspectors, standardization and certification, PHS recommendations, 17159**
- Food Services Department Central Management Office, D.C., see Central Management Office of Food Services Department, D.C.**
- Food stamps:**
- act of 1964, amend to extend program—
    - hearings, 9139, 10802
    - law, 17545
    - reports, 9119, 10598, 13790, 16251
  - Agriculture Department's program, method for sharing our abundance, 5669
  - food stamp program—
    - guide for retailers and wholesalers, 4130
    - retailers, encourage your low-income customers to take part, 17330
    - statutes, compilation, 7262
- Food stores, see Stores.**
- Foot-and-mouth disease, menace to North American livestock, control and eradication progress, 7252**
- Football:**
- professional teams, authorize merger of leagues and protect secondary schools from professional football telecasts—
    - hearings, 742
    - law, 504
    - law, legislative history, 2064
    - law, summary, 4566
    - Senate amendments, summary, 4568
- Footwear, see Boots and shoes.**
- For you from a grateful nation, 18250**
- Forage plants:**
- deer browse resources of Uwharrie National Forest, 8124
  - feed statistics, 17333
  - fertilization uneconomic for forage improvement in Louisiana pine plantations, 14117
  - fluctuations in forage quality on summer range in Blue Mountains, 16663
  - forage and range research, challenges, 14753
  - forage fed to milk cows, 1966-67 winter feeding season, 11880
  - insecticide residues, results of analyses, 8803
  - periodic mowings suppress tamarisk growth, increase forage for browsing, 6368
  - wheat pasture, 4063
- Foraminifera:**
- Gulf of Alaska and southeastern Alaska, recent samples, 12614
  - smaller, from Guam, 1119
  - see also Fusulinidae.
- Force and energy:**
- decreasing stacking-fault energy, possible relation with friction of copper-aluminum alloys, 8490
  - energy absorbing steering control system for automotive vehicles, Federal standard, 6318
  - force investigation of supersonic transport model with highly swept arrow wing, 12924



Force and energy—Continued  
 forward compartment energy absorption  
 for automotive vehicles, Federal stand-  
 ard, 6316  
 hydrostatic force used to handle outsized,  
 heavy objects, 12897  
 zero force reaction in use of hole saw  
 drill attachment, 6767  
 Forced labor, abolition, convention, hear-  
 ings, 7806, 16410  
 Forces deforming rib cage, 10238  
 Ford Foundation, proposal for broadcasters  
 non-profit satellite service, hearings, 2111  
 Ford's Theatre, general information, 11613  
 Fore, Paul L., cumulative subject and author  
 index to Progressive fish-culturist, 1081  
 Forearm vascular responses to lower body  
 negative pressure and orthostasis, 4175  
 Forecasts:  
 long-range forecasting and planning, Air  
 Force symposium, 17340  
 long term, supply and demand of agri-  
 cultural and livestock products in Vene-  
 zuela, summary and evaluation, 12456  
 see also Weather forecasts.  
 Foreclosures, see Weather forecasts.  
 Foreclosure of mortgage, see Mortgages.  
 Foreign activities of national banks, 8004  
 Foreign affairs, see International relations.  
 Foreign Affairs, Committee, House:  
 activities, 89th Congress, 4536  
 calendar, 3475  
 committee prints, 733-734, 4534-36, 6106,  
 7743-44, 7746, 9158, 10651-653, 12297,  
 13704  
 hearings, 730-732, 4533, 7745, 7747, 9155-  
 57, 10623, 10649-650, 12298-300,  
 13705, 15027, 16326  
 investigations and studies, U.S. foreign  
 policy—  
 authorization, report, 7663  
 expenses, reports, 639, 7725  
 reports, 4493, 6024, 7715, 9104, 9131,  
 10568, 10623, 12285, 14960  
 Foreign agents, registration act, administra-  
 tion, report, 16790  
 Foreign Agricultural Service:  
 appropriations, 1968, hearings, 10629,  
 12397  
 bibliographic register, 14670  
 market promotion activity, review, report,  
 10615  
 miscellaneous, FAS-M series, 1084, 2286,  
 4816-17, 8047-48, 9524-25, 11097-99,  
 12565, 14076, 16641-643, 17792  
 special reports, list, 1085, 8049, 14077  
 Foreign agricultural trade, see Agricultural  
 products.  
 Foreign agricultural trade of United States,  
 3343  
 Foreign agriculture, see Agriculture.  
 Foreign agriculture (periodical), 3344  
 Foreign agriculture circulars, 3345  
 Foreign aid:  
 agricultural development, monthly news-  
 letter to cooperators, 3432  
 Colombia projects, planning and super-  
 vision by AID, GAO review, 16677  
 development digest (periodical), 3202  
 economic assistance—  
 administered by AID, 6468  
 financial summary, 16725  
 Vietnam, off-shore fishery development  
 project, agreement, 17238  
 essential element of United States foreign  
 policy (address), 18231  
 excess property, control and use, etc., fol-  
 lowing U.S. military exclusion from  
 France, hearings, 16327  
 expenditures, study, authorization, report,  
 4626  
 food aid program, new, general informa-  
 tion, 4127  
 foreign assistance act of 1961, amend—  
 analysis of bill, 10653  
 development of cooperative enterprises,  
 1966, report, 13700

Foreign aid—Continued  
 foreign assistance act of 1961, amend—  
 continued  
 hearings, 9157, 10649, 12299, 13861,  
 15027  
 Ramseyer rule print of bill, 10652  
 reports, 13837, 14960, 14973  
 foreign assistance act of 1966, Ramseyer  
 rule print, 733  
 foreign assistance act of 1967—  
 analysis, 10653  
 hearings, 9157, 10649, 12299, 13861,  
 15027  
 message from the President, 6000  
 Ramseyer rule print, 10652  
 reports, 13837, 14960, 14973  
 foreign assistance act of 1968, background  
 material, fiscal year 1968, compilation,  
 12297  
 foreign assistance appropriations, 1967,  
 law, 405  
 foreign assistance appropriations, 1968,  
 hearings, 15014, 16304  
 foreign assistance program—  
 authorizations and appropriations, 1965,  
 staff memorandum, 4534  
 authorizations and appropriations,  
 1966-67, staff memorandum, 4535  
 India, economic development projects,  
 planning and surveillance by AID, GAO  
 report, 16669  
 International Development Agency, opera-  
 tions report, 3659  
 programs, proposals for implementing 6  
 guiding principles, message from the  
 President, 6000  
 proposed foreign aid program, fy 1968,  
 AID, summary presentation to Congress,  
 11230  
 South Vietnam, free world assistance, 8716  
 technical cooperation, agreement with—  
 Afghanistan, 5532, 7164, 15768  
 Somali Republic, 7181, 13147  
 United States economic program in Viet-  
 nam, illicit practices affecting, follow-  
 up investigation, report, 14996  
 United States foreign aid in action, case  
 study, 2122  
 voluntary programs, reports of American  
 registered agencies, 2419, 12655  
 see also names of countries.  
 Foreign assets control regulations, com-  
 modity supplement, 8774  
 changes, 17268  
 Foreign assistance, see Foreign aid.  
 Foreign claims, see Claims.  
 Foreign Claims Settlement Commission:  
 appropriations, 1967, law, 501  
 appropriations, 1968—  
 hearings, 10632, 16390  
 reports, 10616, 16372  
 international claims settlement act of  
 1949, text of title 5, 8051  
 reports, semiannual, 6362, 12566  
 Foreign commerce, see Commerce.  
 Foreign commercial markets, talk, 4818  
 Foreign countries:  
 bank operations of U.S. abroad, foreign  
 government restraints, economic policies  
 and practices, 9045  
 consular offices in United States, 10097  
 country report series, 6417-21  
 designations used in compiling U.S. for-  
 eign trade statistics, code classifica-  
 tion, schedule C, 4358  
 change, 5849  
 economic data for less developed countries,  
 4924  
 economics of agriculture and U.S. foreign  
 agricultural trade, selected list of pub-  
 lications, 993  
 family planning programs in developing  
 countries, 8227  
 fees charged for visa of United States pass-  
 ports, list, 7145



Foreign countries—Continued  
 foreign assets control regulations, commodity supplement, 8774  
 changes, 17268  
 foreign tax credit claimed on corporation income tax returns, 11224  
 gifts and decorations, acceptance by government officials and employees, establish basic uniform standards—  
 law, 391  
 Ramseyer rule print, 734  
 government securities, purchase by Federal reserve banks—  
 hearing, 7800  
 report, 9281  
 international business practices, 9602  
 living costs abroad, Department of State indexes, 5084  
 marking of country of origin on U.S. imports, 7842  
 nation building and peace building (address), 14209  
 passenger travel to and from U.S., 3822, 4910, 12633  
 plant quarantine import requirements, summaries, list, 4087  
 profiles of newly independent states, 11826  
 seizures of United States fishing vessels, amend act—  
 hearing, 15045  
 report, 15008  
 small arms ammunition, identification guide, 5738  
 social security programs throughout world, 8692  
 statistical briefs, 3898  
 statistical publications, accession list, 3350  
 world's nations, status, geographic nomenclature, etc., State Dept. geographic bulletin, 17222  
*see also* Foreign agents—also subjects involved.  
 Foreign Credit Insurance Association, insurance, 6232  
 Foreign currencies, *see* Money.  
 Foreign decorations, *see* Decorations of honor.  
 Foreign exchange:  
 rates, monthly, 3346  
 rates, weekly, 3347  
 Treasury and Federal reserve operations, 8005, 16599  
 Foreign Labor and Trade Office, program and publications, 6619  
 Foreign language specialists, examination announcement, discontinuance notice, 5930  
 Foreign languages, *see* Language and languages.  
 Foreign market reports service, listing, 12653  
 Foreign policy, *see* International relations.  
 Foreign relations, *see* International relations.  
 Foreign Relations Committee, Senate:  
 calendar, 3495  
 committee prints, 2116, 4637, 6098, 6104, 6106, 7808-10, 9311, 10830, 10835, 10837, 12408, 13860, 13862  
 consultative subcommittee, list and scope of coverage, 10830  
 hearings, 953-954, 6099, 6100-3, 6105, 6107, 2806-7, 9312-13, 10831-834, 10836, 13861, 13863, 15155, 16410, 17650-653  
 investigations and studies, U.S. foreign policies, authorization, report, 4627  
 reports, 897, 904, 2090, 2092-93, 2096, 6064-67, 7774-75, 9187-90, 9270, 9272, 9295, 10728, 10742, 10757, 10767-768, 12386-387, 13726, 13795, 13837, 15064, 15102, 16352, 17619-620  
 Foreign Service:  
 American officials and their families, social usage abroad, guide, 8712  
 annuities, increases and adjustments, report, 13795

Foreign Service—Continued  
 benefits for employees in high-risk situations, report, 10768  
 biographic register, 14670  
 briefing, 18227  
 career, general information, 10098  
 country team, illustrated profile of American missions abroad, 8711  
 department and foreign service series, 2879, 8711-12, 10096-98, 14670-671, 17217, 18226  
 emergency situation, additional benefits, report, 9295  
 former officers of State Department, payment of severance benefits, GAO report, 4873  
 list, 3349  
 officers, key, of foreign posts, guide for businessmen, 3462  
 overseas opportunities for secretaries, 8722  
 posts, records in National Archives, special list, 14511  
 retirees, prospective, general information for, 8721  
 travel regulations, revision needed to reduce per diem costs, GAO report, 15298  
 Foreign Service Information Officers Corps establish, hearing, 17653  
 Foreign Service Institute:  
 basic course—  
 French language, supplementary exercises, 14675  
 Greek language, 14677  
 spoken Brazilian Portuguese, 2884  
 Vietnamese language, 10106  
 pronunciation and lessons guide, 7195  
 programmatic course, Spanish language, 14682  
 instructor's manual, 13142  
 Foreign students in United States, 5613  
 Foreign trade, *see* Commerce—also names or classes of commodities.  
 Foreign Trade Zones Board, annual report, 11100  
 Foreman, B. J., advanced antenna techniques for rendezvous radar, 11403  
 Forest conservation, *see* Forests and forestry.  
 Forest fires:  
 bibliography of publications by Forest Service, forest fire research staff, etc., 8052  
 comparative fire resistance of 2 seed sources of south Florida slash pine, 9540  
 cooperative control program financing, Federal, State and private funds, 9527, 15276  
 Federal plan for National Fire Weather Service, 9432  
 fire control—  
 air operations facilities needed in major disasters, OEP report, 10702  
 print as Senate document, report, 10783  
 seasonal employment information, 2524  
 State laws, analysis, 9526  
 fire control notes (periodical), 3334  
 forest floor fuels in red and jack pine stands, 2303  
 fuel weight and removal costs in fuel-break construction, 8082  
 Project Fire Scan, fire detection by airborne infrared mapper, report, 8106  
 protection of State and privately-owned land within national forest areas, 4861  
 publications on forest fire research since 1960, Northern Forest Fire Laboratory, Missoula, Mont., 8058  
 retardants, reproducible system for evaluating, 15288  
 spread characteristics determined in laboratory, 4847  
 spread mechanisms, research progress report, 2329  
 statistics, 15277

Forest fires—Continued  
who starts forest fires in Maine—and how? 8076

Forest Haven, voluntary admission of certified mentally retarded patients who have been resident of District of Columbia for one year, report, 7703

Forest lands, *see* National forests.

Forest nurseries, tree planters' notes, 1099, 8125-27

Forest pest leaflets, 4820-21, 9529, 11104-105, 12567, 15278, 16646-647, 17793-796

Forest planting:  
and seeding, 1966 report, 8127  
brushfield reclamation, reforestation with ponderosa pine, 4844  
redcedar mixtures established in poor oak-hickory forests, 8073  
shortleaf pine seedling inventory methods on broadcast-seeded areas in Missouri Ozarks, 8072  
tree planters' notes, 1099, 8125-27

Forest products:  
demand and price situation, 5660  
insecticides, guide, 10162  
national surveys of timber and other forest resources, cost limit increase ceiling, report, 10749  
utilization and marketing assistance for woodland owners, etc., 1714

Forest Products Laboratory:  
annual report of research, 14079  
publications, lists, 11106  
fire performance, 14081  
modified woods, paper-base laminates, and reinforced plastic laminates, 8054  
sandwich construction, 9530  
wood finishing, 14082  
wood preservation, 14083

Forest products technologists, examination announcement, 4394

Forest research, *see* Forests and forestry.

Forest resources, *see* Forests and forestry.

Forest Service:  
annual report, 16653  
appropriations, 1968—  
hearings, 7734, 9302  
law, 12170  
reports, 10560, 10766, 12252  
cartographic records, preliminary inventory, 14510  
employment, nonprofessional, guide, 10184  
field offices, listlogs, 1086  
films available for educational purposes, list, 12569  
forest fire research staff, publications, annotated bibliography, 8052  
Intermountain region yearbook, 1966, national forests in profile, 15280  
land exchanges for public schools, facilitate—  
hearings, 16303  
report, 16275  
lands, in U.S., recreation use estimation, 15284  
need to resolve differences in procedures used by Federal timber management agencies in appraising timber offered for sale, GAO report, 4871  
outdoor recreation research, bibliography, 12568  
poster, 16648  
research notes, 1088-93, 2297-2326, 4826-45, 6365-70, 8059-99, 9533-40, 11110-131, 12570-583, 14087-122, 15281-286, 16654-660, 17801-804  
research papers, 1094-98, 2327V34, 4846-56, 6371, 8100-20, 9541-44, 11132-141, 12584, 14123-145, 15287-289, 16661-664, 17805-806  
resource bulletins, 2335-39, 4857-60, 8121-24, 14146, 16665-666, 17807, 809  
women's work in, career opportunities, 13231

Foresters:  
aerial photo interpretation, guide, 4097  
examination announcement, 16078  
amendment, 8984  
research, examination announcement, 4394

Forestry, *see* Forests and forestry.

Forestry Science Laboratory, Morgantown, W. Va., purpose, work, etc., 14084

Forests and forestry:  
aerial photo interpretation, forester's guide, 4097  
Alaska interior, forest types, photo identification guide, 15287  
Arizona's forests, 2336  
California, commercial forest area and timber volume, 4859  
careers in forestry, 5654  
careers in research forestry, examination announcement, 4394  
cattle in woods or woods in pasture, 14093  
compound interest tables for long-term planning in forestry, 13212  
conservation, materials to help teach, list, 6363  
Del Norte County, Calif., forest statistics, 4860  
destructive Alaska forest insects, identification, 14085  
disposal of logging slash, thinnings, and brush by burying, 4839  
East European forestry, translations, 3954  
effects of slash burning on conifer regeneration in southeast Alaska, 4834  
elementary statistical methods for foresters, 7260  
forest floors and soils under true fir-hemlock stands in Cascade Range, characteristics, 11139  
forest industries in eastern Washington, 8123  
forest inventory statistics, Campbell County, Tenn., 18239  
forest resources—  
and industries in Tennessee Valley, 10116  
New Mexico, 2335  
forested loess soils after repeated prescribed burns, properties, 8091  
forestry accomplishments in southwestern Ohio under U.S. agricultural conservation program, 14135  
forestry bulletin, Tennessee Valley Authority, 18239  
forestry research progress, 1966, McIntire-Stennis cooperative program, 13902  
forestry schools in U.S., list, 4822  
forests forever, 2290  
Georgia, north, industry outlook, 1650  
herbicides for forest plantations, 12571  
industries—  
Appalachia counties of Tennessee, 16666  
Pacific Northwest, production, prices, employment, and trade, 3774  
insects, conditions in—  
Pacific Northwest, 8053  
United States, 9528  
job stability, community prosperity and our forests (address), 13209  
labor requirements in thinning Douglas-fir and western hemlock, 4837  
laws relating to, compilation, 1989  
long-term forestry investments, computer program for evaluating, 14131  
managing your woodlands, how to do it guides, 2292  
Northeastern forest-inventory data-processing system, 11134  
outdoor recreation and associated research needs for suburban forests, 7888  
outdoor recreation research, bibliography, 12568  
ranger arithmetic for—  
1st and 2d grade teachers, 2293  
3d grade teachers, 2294

# INDEX 1967

- Forests and forestry—Continued  
 ranger arithmetic for—continued  
 4th grade teachers, 2295  
 5th grade teachers, 4825  
 6th grade teachers, 11108  
 7th grade teachers, 2296  
 research notes, 1088-93, 2297-2826, 4826-45, 6365-70, 8059-99, 9533-40, 11110-131, 12570-583, 14087-122, 15281-286, 16654-660  
 research papers, 1094-98, 2327-34, 4846-56, 7371, 8100-20, 9541-44, 11132-141, 12584, 14123-145, 15287-289, 16661-664, 17805-806  
 resource bulletins, 2335-39, 4857-60, 8121-24, 15290, 16665-666, 17807-809  
 road to forest management, 1652  
 scientific research coordination in Socialist countries, 7th conference, report, Hungarian study, 14242  
 seasonal employment information, 2524  
 seed fall and regeneration from group selection cut, 1st year results, 4840  
 silvical characteristics—  
 Monterey pine, 8113  
 redwood, 4853  
 slash and litter weight after clearcut logging in 2 young-growth timber stands, 8087  
 slash-burn agriculture among mountain tribes of central Vietnam, 14246  
 slash decomposition, laboratory tests fail to confirm acceleration by chemical treatment, 8086  
 snow cover and calculation of snow floods, USSR study, 1203  
 State and private forestry, southeastern area, 17798  
 tax trends in Louisiana, 8099  
 western forests, aerial photographic techniques for estimating damage by insects, 14078  
 woodland owners, forest products utilization and marketing assistance, 1714  
*see also* Forest fires—Forest planting—National forests—Site indexes—Timber—Trees—Volume and yield tables—*also* names of forests.  
 Forfeitures, collecting, Justice Dept. policies and procedures, GAO review, 11154  
 Forgings:  
 aluminum, notice to trade, 10332  
 gears with integral teeth, high energy rate system evaluation, 8898  
 steel, current industrial reports, 3169  
 Forman, B. J., diode-iris controlled waveguide slot radiators, 9812  
 Formic acids, description, etc., technical reference, 9740  
 Forms (concrete construction), *see* Molds (forms).  
 Forms, blanks, etc.:  
 index of AMC blank forms, 95, 5721, 10251, 13289, 15927  
 sheet sizes and hole-punching data for filler paper and forms bound in ring, post and prong binders, military standard, 9374  
 standard forms, GSA stock catalog, 16607  
*see also* names of departments, etc., issuing or using forms—*also* subjects.  
 Forsterite, thermodynamic properties, 11387  
 Forsyth, Gordon J., reclamation era, 3810  
 Fort, E. F., relief, 7632  
 Fort, W. R., relief, 7632  
 Fort Caroline National Memorial, general information, 8555  
 Fort Donelson National Military Park, general information, 13005  
 Fort Huachuca, Ariz., STRATCOM new headquarters, 6155  
 Fort Huachuca Military Reservation, nutrition survey, 14807  
 Fort Lyon Veterans Hospital:  
 real property, retrocede jurisdiction to Colorado—  
 law, 368  
 report, 898  
 Fort Madison, Iowa:  
 Mississippi River, navigation project, engineer report—  
 departmental edition, 4733  
 document edition, 4470  
 Fort Payne, Ala., bauxite deposits, 2356  
 Fort Peck Game Range, *see* Charles M. Russell National Wildlife Range.  
 Fort Peck Indian Reservation:  
 tribal land, transfer of title—  
 law, 12166  
 reports, 10579, 12361  
 Fort Pulaski National Monument, general information, 13006  
 Fort Stockton, Tex., brackish well water reverse osmosis tests, 11217  
 Fort Valley Experimental Forest, ponderosa pine, racial variation, 2315  
 Fort Wayne, Ind., population, special censuses, 10378, 16016  
 Fort Worth, Tex., area wage survey, 8307  
 Fortenberry, W. H., story of cotton, 15858  
 Fortney, Sidney, R.:  
 effect of hydrazine on liver glycogen, arterial glucose, etc., in anesthetized dog, 7359  
 effect of monomethylhydrazine on methemoglobin production in vitro and in vivo, 14773  
 Fortran, *see* Electronic data processing systems.  
 Fortune magazine, directory of 500 largest U.S. industrial corporations, 1954-65, concentration and divisional reporting, etc., hearings, 12415  
 Forward compartment energy absorption for automotive vehicles, Federal standard, 6316  
 Forwarders, *see* Freight forwarders.  
 Fosberg, Michael A., some characteristics of 3-dimensional structure of Santa Ana winds, 4855  
 Foshag, William F., aerodynamic testing of airborne lightweight high-efficiency radial fan, 10292  
 Foss, Murray F., survey of current business, 3925  
 Foss Reservoir, repayment contract, amend to provide for water treatment plant, hearing, 15160  
 Fossils:  
 contributions to paleontology (series), 16699  
 fossil marine mammals from Miocene Calvert Formation of Maryland and Virginia, 1530  
 Foster, Helen L., geology of Mount Fairplay area, Alaska, 12599  
 Foster, John S., testimony, 7808  
 Foster-home care, *see* Child placing.  
 Foundations (charitable and educational), *see* Charitable institutions.  
 Foundations (construction):  
 farm buildings, 17310  
 grouting, field technique and inspection, engineering and design manual, 2211  
 post-stressed concrete, may reduce machinery vibration, 15489  
 procedure for design of buildings and other structures, Army technical manual, 10276  
 public buildings, subsurface exploration for and design and construction, GAO, review, 11156  
 Founding metal founding classification definitions, 11684  
 Foundries:  
 copper-base products, current industrial reports, 3170  
 iron and steel, current industrial reports, 4329

Foundries—Continued  
 steel casting and foundry work in USSR, 1224  
 Fountain, James B., prepackaging pears at shipping point, 1703  
 Four Corners Economic Development Region, dedication (remarks), 4449  
 Four Corners Regional Commission, Federal Cochairman, nomination of Orren Beatty, jr., hearing, 13883  
 Four educational opportunities for occupational therapy students, 8899  
 4-H clubs:  
     clothing projects, abilities of girls 9 to 13, 48  
     entomology leaders' guide, 4134  
     this is 4-H, general information, 15867  
 Fourier coefficients, *see* Coefficients.  
 Fourier transforms, *see* Transformations (mathematics).  
 Fourth dimension, 7382  
 Fourwing saltbush, *see* Saltbush.  
 Fowl ticks, control, 1699  
 Fowler, A. K., electronic method for counting and sizing rabbit spermatozoa, 11954  
 Fowler, Henry H.:  
     remarks, etc.—  
         Oct. 22, 1966, 1653  
         Nov. 14, 1966, 1657  
         Nov. 16, 1966, 2956  
         Nov. 18, 1966, 1655  
         Nov. 25, 1966, 2957  
         Dec. 3, 1966, 2954  
         Dec. 6, 1966, 2952  
         Dec. 7, 1966, 2950  
         Feb. 6, 1967, 5573  
         Feb. 16, 1967, 7213  
         Feb. 21, 1967, 7212  
         Mar. 13, 1967, 8775  
         Mar. 17, 1967, 8777  
         Apr. 10, 1967, 8776  
         Apr. 20, 1967, 10124  
         Apr. 24, 1967, 10121  
         Apr. 28, 1967, 10120  
         May 13, 1967, 11883  
         July 18, 1967, 14709  
         Sept. 21, 1967, 17272  
         Sept. 26, 1967, 17271  
         Oct. 28, 1967, 18243  
 Fowler, Laurie G.:  
     studies of caloric and vitamin levels of salmon diets, 8042  
     test of different components in Alberathy salmon diet, 16636  
 Fowler, P. R., problems in aerial application, detection of mild poisoning by pesticides, etc., 13351  
 Fox, Austin, demand for farm tractors in United States, regression analysis, 2169  
 Fox, Lawrence A.:  
     addresses, etc.—  
         Nov. 22, 1966, 2418  
         Nov. 1, 1967, 17854  
 Fox, R. B., photodegradation of high polymers in solution, poly (methyl methacrylate), 5358  
 Fox Indiana, *see* Sac and Fox Indians.  
 Foxvog, Donald R., FAA aviation news, 3257  
 FPC, *see* Federal Power Commission.  
 FPC R series, 4770-71  
 FPC series, 2247, 7973, 11017, 12508, 17760  
 FPL, *see* Forest Products Laboratory.  
 Fra Mauro, AIC 76B, lunar chart, 7329  
 Fractionation:  
     continuous flow in-line exchange of volatile solvents in automated chemistry, 75  
     inorganic solutions, by foaming, 12642  
 Fracture of metals:  
     crack growth—  
         flat and curve surfaces at cryogenic temperatures, continuity gage measurement, 2721  
         measured on flat and curved surfaces at cryogenic temperatures, 17992  
     crack propagation theories, 17939

Fracture of metals—Continued  
     crackline-loaded edge-crack specimens, stress intensity factors, 6869  
     fatigue crack growth in Ti-3Al-1Mo-1V (duplex-annealed) specimens having various widths, investigation, 8494  
     fracture toughness of wide 2014-T6 aluminum sheet at -320°F, 12936  
     hydrogen embrittlement of ultrahigh-strength steels, study to minimize, 11470  
     low cycle fatigue of notched specimens by consideration of crack initiation and propagation, 12921  
     meteoroid damage to filamentary structures, 16899  
     neutron embrittlement of—  
         higher strength steels, 5356  
         reactor pressure vessel steels, exposure criteria, 5355  
     plane-stress, elastic-plastic states in vicinity of crack tips, 9316  
     plastic constraint ahead of sharp crack under plane-strain conditions, 7108  
     radiation embrittlement of Army SM-1A reactor pressure vessel, projected estimates, neutron spectral effects, 1554  
     residual strains and displacements within plastic zone ahead of a crack, 5489  
     stress-corrosion cracking of Ti-6Al-4V alloy in methanol, 6900  
     stress corrosion cracks in titanium alloys revealed by chemical milling solution, 16957  
     stress distributions in vicinity of simulated crack, photoelasto-plastic method to study, 8406  
     stresses at tip of longitudinal crack in plate strip, 14498  
     titanium alloys, salt water stress-corrosion cracking characteristics, 17091  
     titanium, aluminum, and stainless steel alloys in aqueous environments, crack propagation, delayed failure, and residual static strength, 6872  
     uniaxial and biaxial toughness of titanium alloy sheet, 11552  
 Fraguio, Hilario Anido, *see* Anido-Fraguio, Hilario.  
 Franca, Jorge I. Miquel, *see* Miquel Franca, Jorge I.  
 France:  
     alien amateur radio operators, authorization to operate, agreement, 2897  
     background notes, 13135  
     communication systems and depots, agreement, 5551  
     computers, Soviet view, 1270  
     consular convention—  
         report, 16352  
         treaty, text, etc., 9184  
     defense—  
         air depot at Deols, La Martinerie agreement, 5550  
         use of certain air bases and facilities, agreement, 7168  
     disposal of United States military installations and supplies, reports, 6109, 7769  
     establishing business in, 4431  
     headquarters of Deputy Commander, Allied Forces in Europe, agreement, 7170  
     heavy water production, study, 1196  
     income-tax convention, 16351  
     military exclusion of U.S., excess property control and related problems, hearings, 16327  
     mineral industry, minerals yearbook chapter, 16858  
     navy, hull testing basin, means of experimentation and research, 11258  
     north coast, sailing directions, 13022  
     petroleum products pipeline, establishment, agreement, 7169  
     prune industry, 12565  
     reactions to American involvement in Vietnam, 5703  
     satellite-balloon meteorological research (Project EOIE), agreement, 2906

# INDEX 1967

- France—Continued  
social composition of French Communist Party and its evolution, 9651  
social security system, reform, 17199  
travel to United States, market survey, 5580  
United States military installations, investment of military assistance funds, 9158  
Franchise tax, District of Columbia, amend act, reports, 879, 893  
Franchises (business):  
exclusive territorial franchise bill, hearings, 7817  
franchise company data, equal opportunity in business, 7450  
franchising agreements, effect on small business, hearings print additional copies, reports, 916, 2030  
Francis, P. S., fabrication, etc., of ultrathin reverse osmosis membranes, 12641  
Franciscus, Leo C., computer program for determining effects of chemical kinetics on exhaust-nozzle performance, 15575  
Franco, John J.:  
Arkansas River navigation entrance, 17737  
hopper dredge dragheads, 6211  
navigation conditions at—  
Arkansas River Lock and Dam no. 4, 2221  
Belleville Locks and Dam, Ohio River, 1030  
Columbia Lock and Dam, Ouachita River, La., 6212  
McAlpine Locks and Dam, Ohio River, 6210  
Millers Ferry Lock and Dam, Alabama River, Ala., 10961  
Franken, Peter A., propagation of sound from airport ground operations, 11404  
Frankfurt, Germany, U.S. trade center, 12654  
Franking privilege:  
members of Congress, franked mail covers, amend United States Code, hearings, 17607  
telegraph and telephone, FCC rules and regulations, 3279  
Franklin County, Kans., dedication ceremonies for water system (remarks), 4141  
Franklin County, Mass., soil survey report, 8696  
Franquiz, Jose J. Diaz, *see* Diaz Franquiz, Jose J.  
Franseth, Jane, survey of research on grouping as related to pupil learning, 4721  
Fraser, T. M., storage of biological samples, 9820  
Fraud:  
and mailability, enforcement action, 3360  
mail, how postal inspection service protects you, 17119  
sale of real estate subdivisions through mails and in interstate commerce, prevent hearings, 17642  
Frazier, Arthur H., William G. Price and Price current meters, 9951  
Frazier, Emery L., tribute upon retirement, 2075  
Fredricksburg, Battle of, 1862, where hundred thousand fell, 1533  
Free jet impingement normal to curved surface in vacuum, 9897  
Free-molecule flow and surface diffusion through slots and tubes, summary, 8508  
Free radicals, light-induced, in wood, 4846  
Free transportation, *see* Franking privilege.  
Free world assistance for South Vietnam, 8716  
Free world production and trade in selected household appliances, 7573  
Freedman's Hospital School of Nursing, announcement, 2808  
Freedom, *see* Liberty.  
Freedom of religion, *see* Religious liberty.  
Freedom of the seas, seapower, guardian of freedom, 9976  
Freeman, Delma C., jr., low subsonic flight and force investigation of supersonic transport model with highly swept arrow wing, 12924  
Freeman, Orville L.:  
addresses, etc.—  
Aug. 4, 1966, 52  
Aug. 16, 1966, 26  
Aug. 24, 1966, 25  
Sept. 8, 1966, 22, 24  
Sept. 14, 1966, 23  
Sept. 26, 1966, 51  
Oct. 3, 1966, 1677  
Oct. 4, 1966, 1696  
Oct. 11, 1966, 1719  
Oct. 12, 1966, 1676  
Oct. 13, 1966, 1694  
Nov. 1, 1966, 4119  
Nov. 14, 1966, 4094  
Nov. 15, 1966, 4142  
Nov. 19, 1966, 4091  
Nov. 21, 1966, 4092  
Dec. 6, 1966, 4093  
Dec. 12, 1966, 7295  
Jan. 20, 1967, 7268  
Jan. 30, 1967, 4108, 8821  
Feb. 6, 1967, 8824  
Feb. 7, 1967, 7258  
Feb. 15, 1967, 7296, 8822  
Feb. 27, 1967, 7280  
Mar. 14, 1967, 7257  
Mar. 20, 1967, 10163  
Mar. 23, 1967, 8823  
Apr. 3, 1967, 10159  
Apr. 7, 1967, 10158  
Apr. 19 and 20, 1967, 10198  
Apr. 20, 1967, 10160  
Apr. 25, 1967, 10196  
May 3, 1967, 13242  
May 8, 1967, 13209, 13229  
May 16, 1967, 10197, 13240  
June 13, 1967, 13241  
June 15, 1967, 13219  
July 7, 1967, 13243  
Aug. 1, 1967, 15834  
Aug. 14, 1967, 15846, 15876-877  
Aug. 30, 1967, 15835  
agriculture 2000, policy speeches, compilation, 13218  
Freeman, Robert E., farm-retail price spreads for dairy products, 1939-66, 10181  
Freeman, T. G., Federal-State-private cooperative snow surveys for Alaska, 3317  
Freeport, Tex., saline water conversion demonstration plant, annual report, 17848  
Freese, Frank, elementary statistical methods for forester, 7260  
Freeswick, D.C., automatic sampler for collecting radioactive particulates in ground level air, 1788  
Freeways, *see* Roads and highways.  
Freeze drying, *see* Lyophilization.  
Freezers:  
provisioning industry, 5648  
what to do when your home freezer stops, 10173  
Freezing:  
food, combination main dishes, 17313  
home freezing of—  
fruits and vegetables, 11930  
poultry, 4107  
saline water conversion—  
direct separation process, experimental investigation, 12644  
research, 9593  
tests of concretes of various strengths and air contents, 13986  
thermodynamics and kinetics, 6446  
transient solidification of warm liquid flowing over chilled flat plate, 12935  
*see also* names of commodities, etc., frozen.  
Freezing points, depression and heat capacity of soils, thermodynamic relationships, 8878

- Freezing spring temperatures damage knob-cone pine, 8117
- Freight :  
 carload waybill statistics, 1964—  
   mileage distribution by type of car, 6472  
   territorial distribution by type of car, 8231  
   traffic and revenue, 6473  
   weight distribution by type of car, 8232  
   commodity statistics, annual report, 12656  
   cost of transporting by class 1 and 2 motor common carriers—  
     by regions or territories, 16726  
     Central region, 11232  
     Middlewest region, 11233  
     New England region, 9604, 11234  
     Southwest region, 11235  
   damages in transportation, recovery of reasonable attorney's fees, hearings, 17645  
   description and suffixes, Army regulation, change, 14790  
   preparation for air shipment, DSA manual, 17692  
   rail revenue contribution by commodity and territory, developing, 8234  
   rail service costs, formula for use in determining, 4926
- Freight cars :  
   farmer cooperatives owning or leasing covered hopper cars, 16545  
   situation and prospects, 10919
- Freight forwarders :  
   air freight forwarder industry, future (remarks), 16049  
   air freight forwarders must grow while educating industry in regards to their service (remarks), 12096  
   air transportation industry, small business role, report, 4511  
   facilitating air-truck movements for smaller community (remarks), 17447  
   revenues, expenses, and statistics, quarterly, 3833  
   transport statistics, 4929
- Freight rates :  
   airfreight rates, introduction, 16047  
   cost-based desirability, and feasibility, summary, 13163  
   intercoastal shipping, accounting at expiration of rate suspension, hearings, 16337  
   ocean, military cargoes, by U.S. flag ships at reduced rates, hearings, 4552  
   reduced, for governmental bodies, limit hearings, 16398  
   refunding, FMC to authorize, hearings, 16337  
   specialist, examination announcement, 206
- Freight trains, *see* Railroads.
- Freitas, Branca da G. F., relief, 12226
- Fremont County, Wyo., Puddle Springs quadrangle, geology, 12602
- French, G. W. :  
   evaluation of cost factors in production and harvesting of potatoes, 15873  
   machine for application of dust to cut seed potatoes, 7241
- French, J. J., progress report on proposed ground-water studies in Lytle Creek-San Sevalne area, Upper Santa Ana Valley, Calif., 1125
- French bathyscaphe departs for Japan, 9631
- French fried potatoes, *see* Potatoes.
- French Guiana, mineral industry, minerals yearbook chapter, 11361
- French language, basic course, supplementary exercises, 14675
- French literature, classification, Library of Congress, 2527
- French Polynesia :  
   Makatea Island, mineral industry, minerals yearbook chapter, 9759  
   Marquesas Islands and adjacent areas longline fishing for deep-swimming tunas, 12549
- French Prairie, geology and water resources of area, 14179
- French Somaliland, labor conditions, 5074
- Freon-113 condensing in downward flow in vertical tube, local heat-transfer and pressure distributions, 11510
- Frequencies :  
   automatic control systems responding to Doppler shift, synthesis, USSR study, 16742  
   design concepts using ring lasers for frequency stabilization, 11472  
   determination of fixed base natural frequencies of shipboard equipment by shake tests, 11673  
   developing quadrature voltages at variable frequencies by using parallel-T network, 5361  
   distributions, mixed, estimation, 12947  
   frequency response of forced-flow single-tube boiler, 12952  
   high frequency magnetic recording, USSR study, 6504  
   hydrogen maser as highly stable frequency reference, 11475  
   infralow devices, new patents, USSR study, 9647  
   microwave and high-frequency bibliography, 17031  
   molecular vibrational, tables, 8524, 18077  
   natural, of closed spherical sandwich shells determined by computer program, 16939  
   pressure levels and pulsation frequencies can be varied on high pressure/frequency testing device, 17971  
   resonance frequency, natural shift, 2745  
   resonant, of dielectric sphere immersed in plasma, 12929  
   response and transfer functions of nuclear rocket engine system, 11526  
   temperature dependence of dielectric constant of micamuscovite at varying frequencies, USSR study, 16737  
   *see also* Audio frequencies—Radio frequencies—Ultrahigh frequency.
- Frequency discriminators, electronic, description, 12888
- Frequency modulation, *see* Radio frequency modulation.
- Frequency multipliers, experimental coherent fractional, at S-band, 14441
- Frequency response :  
   characteristics of propellant vaporization, analysis, 5235  
   forced-flow single-tube boiler with inserts, 18022
- Frequency shift converter, automatic control systems responding to Doppler shift, synthesis, USSR study, 16742
- Frequency spectrum of fluctuations of sea water temperature, 1180
- Frequency-to-analog converter, fast-response, 14445
- Fresco De Jongh, Guillermo, relief, 10544, 13513, 13761
- Fresh fruit, *see* Fruit.
- Fresh water fishes, *see* Fish and fisheries.
- Fresnel diffraction plates are simple and inexpensive, 16945
- Fresnillo mine, geometry of metal distribution, 9771
- Frey, H. Thomas, agricultural application of remote sensing, potential from space platforms, 15843
- Fribourg University, nuclear physics research activities, 5011
- Friction :  
   brake cushions acceleration and vibration loads, 6771  
   characteristics of rhenium, single-crystal and polycrystalline, in vacuum, 9912  
   coefficients for laminar and turbulent flow with ratios of surface to bulk temperature, 17014



Friction—Continued

- copper-aluminum alloys, possible relation with decreasing stacking-fault energy, 8490
- copper, single-crystal and polycrystalline, recrystallization and preferred orientation, 8481
- friction and leakage losses in blade-rings of turbines and turbine units, 5277
- frictional loss in metal bellows and flexible hose, method of predicting, 9825D
- impregnated mechanical carbons, wear and friction at temperatures to 1400°F in air or nitrogen, 9915
- low-temperature, reduction by use of additions to fused-fluoride coatings, 5265
- machine tests slow-speed sliding friction in high vacuum, 17989
- metals in single-crystal and polycrystalline form, effect of recrystallization, 15374
- sliding, platinum metals group members, 15578
- status of research on lubricants, friction and wear, 17082
- wear and friction of polymer laminates in liquid nitrogen, etc., 2693
- wear studies of slip rings and gas bearing components, 18003
- Fridie, Willmon :  
  manufacturing earnings series, 5083  
  summary, 12775
- Frie, Jimmie W., soil survey of Greer County, Okla., 10088
- Friedel, Robert A. :  
  advances in coal spectrometry, absorption spectrometry, 16848
- infrared and ultraviolet spectrometric techniques and spectra-structure correlations, 6631
- Frieden, Bernard J., metropolitan America, challenge to Federalism, 2048
- Friedland, B., stability of attitude control systems acted upon by random perturbations, 11399
- Friedlander, Alan L., error analysis of celestial-inertial navigation for low-thrust interplanetary vehicles, 8424
- Friedman, Stanford B., childhood leukemia, pamphlet for parents, 18157
- Friendship, Americans extend hand to visitors from throughout world, 10126
- Frigerio, Norman A., your body and radiation, 7445
- Friichtenicht, J. F., laboratory measurement of meteor luminous efficiency, 11411
- Frlis, Herman R., Federal exploration of American West, 8516
- Fringe benefits, *see* Employee benefit plans.
- Frisbie, Bryan R., mineral industry of Peru, 11364
- Frisch, Harold P., thermal bending plus twist of thin-walled cylinder of open section with application to gravity gradient booms, 15561
- Frisch, Max, Don Juan play, Moscow production criticized, 6541
- Fritch, D. J., results from full-scale measurements of midship bending stresses on 2 dry-cargo ships, 10076
- Froeschner, Richard C., revision of cactus plant bug genus *Hesperolabops* Kirkaldy, etc., 14539
- Frogs, cornea, monomethylhydrazine toxicity, 10242
- Frohlich, Phillip, disability insurance and aid to the blind, 11799
- Frohne, Karl-Heinz, reservoir study of William Kaufman lease Clover-Rush Run oil-field, Roane County, W. Va., 14347
- From buttermilk to gum log, 12466
- From rote to reason, 5385
- From Runnymede to Ganymede, 18059
- Frondel, Judith W., glossary of uranium and thorium-bearing minerals, 17819

- Frost, Oakley M., potatoes and sweet-potatoes, usual dates for planting, harvesting, marketing, by seasons, etc., 13211
- Frost, W. T., water supply outlook and Federal-State-private cooperative snow surveys for Oregon, 4049
- Frost, pavement evaluation for frost conditions, Army technical manuals, 5741, 5743, 7394
- Frozen foods, purchased, home care, 17315  
  *see also* Cold storage—*also* names or classes of foods frozen.
- Frozen ground :  
  bibliography, with abstracts, 14791
- interface between ice and silicate surfaces, 11982
- phase composition of frozen montmorillonite-water mixtures from heat capacity measurements, 14792
- Fruit :  
  canned, foreign agriculture circulars, 3345
- canned deciduous, Greek industry, 17792
- census of agriculture, 5903-4, 7499-7510, 8962-65, 10388-398, 12091-92, 13404-412, 14837-839, 16036-40, 17442
- containers, standard acts of 1916 and 1928, repeal—  
    hearings, 751, 4636  
    report, 889
- controlled atmosphere storage, development, 7959
- culture, etc., publications, price list, 5417
- deciduous, foreign agriculture circulars, 3345
- disinfestation by gamma irradiation, dosimetry, tolerance, and shelf life extension, annual report, 5794
- dried, foreign agriculture circulars, 3345
- fresh—  
    market news, weekly summary, 3361
- prices, 1966. Chicago and New York City, 10203
- shipments, by commodities, etc., 10874
- shipments, by States, etc., 10873
- fresh, unloads—  
    eastern cities, by commodities, States, etc., 7830
- for 41 cities, 7834
- midwestern cities, by commodities, States, etc., 7832
- southern cities, by commodities, States, etc., 7833
- western cities, by commodities, States, etc., 7831
- fruit situation, 3364
- fruits and vegetables, bright jewels, guide for program aides in home economics, 4133
- good choices for thrifty family, variety, selection and use, 9339
- home canning, 15850
- home freezing, 11930
- home garden, Pacific Coast States and Arizona, 5635
- how to use USDA grades in buying, 5671
- irradiation preservation, 1784
- Mexican, fumigation with ethylene dibromide, manual, 13203
- noncitrus, production, use, value, by States, 11944, 14695-696
- northern Great Plains, growing for home use, 7272
- perishable agricultural commodities act, fair trading in fruit industry, 13236
- processed—  
    plants under USDA continuous inspection, list, 16447
- standards for grades, 6135
- USDA inspection service, 11937
- shelf life, extending by use of radiation technology in postharvest procedures, 5792
- storing in basements, cellars, outbuildings, and pits, 5631
- vitamin A, good choice for thrifty family, selection, 9337



Fruit—Continued  
 vitamin C, good choice for thrifty family, selection, 9338  
*see also* Horticultural products—*also* names of fruits.  
 Fruit juices, consumer purchases (periodical), 3145  
 Fruits, *see* Fruit.  
 Frustums, aerodynamic characteristics for cone-cylinder-frustum-cylinder configurations, 9804  
 Fry, Bernard L., feasibility of V/STOL concepts for short-haul transport aircraft, 12851  
 Fry, Edward R.:  
     revision of bank credit series, 16595  
     revision of money supply series, 16596  
 Frye, L. R., heat exchange, classification definitions, 18127  
 FSLIC, *see* Federal Savings and Loan Insurance Corporation.  
 FTSR letter, 5895-97  
 Fuel:  
     distillate fuels, hydrogenation studies, 12817  
     emulsified, feasibility of burning in gas turbine engines, 11998  
     Federal item identification guides for supply cataloging, supplements, 3290  
     flame fuels, Army technical manual, 105  
     fluorine and fluorine-oxygen mixtures in rocket systems, handling and use, 11425  
     fuel and igniting devices, classification definitions, 13043  
     fuels and electric energy used, by major groups, etc., annual survey of manufacturers, 17419  
     high-energy, for supersonic transport reserves, 11532  
     hydrocarbon, flammability properties, 17094  
     industries, employment and injuries minerals yearbook chapter, 2536  
     mineral-fuel industries review, minerals yearbook chapter, 5132  
     mineral fuels, minerals yearbook—departmental edition, 11366  
     document edition, 10495  
     minimum fuel ascent from lunar surface, 16994  
     missile fuel, Air Force Dept. procurement from sole-source supplier, GAO review, 9551  
     publications, price list, 2803  
     resources, Green River formations, Utah and Colo., 12610  
     retail prices and indexes, 3830  
     rocket, solid, outgassing rates in vacuum, 5262  
     sloshing experiments, baffle thickness effects, 2700  
     temperatures in gaseous nuclear rocket engine, local and average estimates, 16998  
     used in mineral industries, census of mineral industries, 7470  
*see also* Forest fires—Liquid fuels—Motor fuel—Reactor fuels.  
 Fuel cells, *see* Electric batteries.  
 Fuel elements, *see* Reactor fuel elements.  
 Fuel oil:  
     and residential and commercial heating markets, outlook (remarks), 17101  
     bunker oil, foreign trade reports, 3998  
     bunker oil laden in U.S. on vessels engaged in foreign trade, 1966 calendar year, 10399  
     burner fuel oils, petroleum products survey, 16800  
     diesel fuel oils, petroleum products survey, 2568  
     liquid fueling and dispensing facilities, design manual, 13016  
     Navy, sea water contamination, microwave monitoring, 15637

Fuel tanks, *see* Tanks.  
 Fuel valves, *see* Valves.  
 Fuels, *see* Fuel—Reactor fuels.  
 Fuller, Dennis E., static stability characteristics swept arrow wing model, etc., 14473  
 Fulton, John D.:  
     microorganisms in 2 types of air masses at 690 meters over a city, 66  
     microorganisms of land air mass as it traverses ocean, 68  
     relationship between altitude and micropopulation, 1733  
     relationship between frontal activity and micropopulation at altitude, 1732  
 Fulton, Kenneth, postal life, magazine for postal employees, 13055  
 Fultonberg, D. N., corrosion of aluminum in water, 17938  
 Fumich, George, jr., remarks, May 3, 1967, 8997  
 Fumigation:  
     Mexican fruits with ethylene dibromide, 13203  
     roller system to facilitate covering boxcars with tarpaulins, 13202  
     wheat with methyl bromide, gravity-penetration, single-pass, and closed-recirculation methods, 15861  
 Fun Wat Hoy, *see* Hoy, Fun Wat.  
 Functional analysis, minimum principle in calculus of variations, Italian study, 4995  
 Functions (mathematical), *see* Mathematics.  
 Fund raising:  
     voluntary health and welfare agencies within Federal service, manual, 3539  
     change, 4399  
 Funds:  
     Federal contributions, opportunities for reducing by maximizing investment of excess funds held by local housing authorities, Housing and Urban Development Dept., GAO report, 6376  
     Federal, day care projects, 8792, 10140  
     objectives for Federal funds (address), 13957  
     requisition fund codes, MILSTRIP, 16473  
*see also* Money—Revolving funds—Welfare funds—*also* names of departments, etc., for which funds are used—*also* subjects for which funds are used.  
 Fundulea Agricultural Research Institute, Rumania, activities, 10th anniversary, 9612  
 Funeral directors, *see* Undertakers and undertaking.  
 Fungi, *see* Streptomyces.  
 Funk, David T., annotated bibliography of walnuts and related species, 8108  
 Fur seals, *see* Seals (animals).  
 Furman, Albert L., soil survey of Seminole County, Fla., 2876  
 Furnaces:  
     equipment, Federal item identification guides for supply cataloging, supplements, 3288  
     Federal item identification guide, 15184  
*see also* Blast furnaces—Electric furnaces.  
 Furness, Betty, remarks, May 26, 1967, 11701  
 Furnishings, *see* Household goods.  
 Furniture:  
     Federal item identification guides for supply cataloging, supplements, 3292  
     household, current industrial reports, 7479  
     retail furniture report, 3829  
     retailing, bibliography, 15732  
*see also* Office furniture and equipment.  
 Furs, Federal item identification guides for supply cataloging, supplements, 3292  
 Fuselage:  
     aft mounted nacelles effects on subsonic longitudinal aerodynamic characteristics of twin-turbojet airplane, 2730  
     variable-sweep wing-fuselage configuration, effect of skewed wing-tip controls, 8487

Fuses (ignition devices):  
 consolidated identification list for test evaluation, Federal supply catalog, Defense Dept. section, 3318, 7855

Fuses (safety devices):  
 fused diode provides visual indication of fuse condition, 14431  
 solid-state recoverable fuse functions as circuit breaker, 6845

Fusiform rust, infections, sodium arsenite, possible eradicator, 12581

Fusion, welding, workmanship standards, 14365

Fusion (nuclear), *see* Nuclear fusion.

Fuste, Ricardo R., relief, 275, 584

Fusulinidae:  
 from Graford formation and Winchell limestone, Brown County, Texas, 12615  
 Permian tethyan fusulinids from California, 16699

Future in materials, 17472

Future national space objectives, 2058

Futures, *see* Commodity exchanges—Speculation.

Fuzes, *see* Fuses (safety devices).

## G

G.A.O., *see* General Accounting Office.

Gabon:  
 labor conditions, 2509  
 mineral industry, minerals yearbook chapter, 8348

Gabriel, W. F., tunnel diode low-level detection, 11493

Gabron, Frank, thermal nanikin, 1435

Gadomski, S. T., dry-packed beds for removal of strong-acid gases from recycled atmospheres, 5350

Gages:  
 continuity, measurement of crack growth on flat and curved surfaces at cryogenic temperatures, 2721  
 controls force for placing chips on substrates, 6832  
 displacement, for crack-extension measurements, design and use, 1513  
 mechanical gage checks tubing flare, roundness and concentricity, 6816  
 multiple element foil, crack growth measured on flat and curved surfaces at cryogenic temperatures, 17992  
 pipe thread, holding fixture facilitates measurements, 8474  
 tests tube flares quickly and accurately, 5210  
 three component borehole deformation, for determining stress in rock, 15481  
*see also* Ionization gages—Liquid level gages—Pressure gages—Rivers—Skin-friction gages—Strain gages—Vacuum gages.

Gaging stations, Pacific Northwest, annual peak water discharge, 16680

Gainesville, Fla., Insects Affecting Man and Animals Research Laboratory, materials evaluated, 14736

Galaud, Ruth C., welfare in review, 4061

Galaxies, celestial X-ray sources, high angular resolution studies program, 8428

Gale, Hazen F., farm food marketing bill and its components, 6170

Galena Mine, Wallace, Idaho, stress ellipsoid determination in rock-burst-prone area, 14351

Galeoidea, *see* Sharks.

Gall, Lorraine S., effect of diet and atmosphere on intestinal and skin flora, 9799

Gallagher, James F., variability of water masses in Indian Ocean, 11630

Gallatin, Albert, 1½-cent regular postage stamp (poster), 5386

Gallaudet College:  
 model secondary school for deaf to serve National Capital region, establishment and operation—  
 law, 408  
 law, legislative summary, 8192

Galloway, Lowell E., interindustry labor mobility in United States, 13119

Gallinules, hunting, possession, transportation, importation, 1967-68, Federal regulations, 16623

Gallium, extraction from coal fly ash and phosphorus furnace flue dust, 9789

Gallo, William F., investigation of methods for predicting flow in shock layer over bodies at small angles of attack, 11507

Galura, Julieta G., *see* Bersamin, Julieta G.

Galvanic corrosion, *see* Corrosion and anticorrosives.

Galvanic couples, *see* Voltaic couples.

Galvanomagnetism, *see* Electromagnetism.

Galvin, Cyril J., longshore current data, 10952

Gambel oak, *see* Oak.

Gambia:  
 background notes, 11817  
 capsule facts for Armed Forces, 11975  
 labor conditions, 1374  
 Peace Corps program, agreement, 7193

Gambling, prohibit certain financial institutions from participating, hearings, 12292, 16397

Game and game birds:  
 big game—  
 handling your kill, 8056  
 inventory, 17788  
 conservation, laws relating to, compilation, 1989  
 migratory bird conservation act, amend—  
 hearing, 10665  
 report, 12265  
 migratory birds, Federal regulations governing hunting, possession, transportation, and importation, 16623  
 Alaska, 14061  
 migratory waterfowl regulations, 1967-68, hearing, 16336  
 U.S. game management agent, pilot, Sport Fisheries and Wildlife Bureau, careers, 6345

Game theory:  
 differential game of survival, generalized solution, USSR study, 14253  
 problem of game encounter of movements, USSR study, 12676

Gamma globulin, change in normal human serum parameters during simulated altitude and aerospace flights, 8868

Gamma rays:  
 angular distribution coefficients, compilation, 12013  
 cesium-137, differential energy and angle spectra in water and air, 13326  
 effect of gamma irradiated plant food on monkeys, USSR study, 6571  
 gamma irradiation of fruit and vegetables, dosimetry, tolerance and shelf life extension related to disinfection, manual report, 5794  
 gamma radiation, effect on—  
 changes in properties of fresh fish, 9669  
 reaction of anthracite with fluorine and chlorine, 2585  
 lethal dose for rabbit, 17347  
 low energy, inspection of brazed aluminum joints, 16967  
 lunar gamma radiation, intensity and spectral composition, USSR study, 1281  
 prompt gamma rays from radiative capture of thermal neutrons, 5776  
 repeated treatment, effect on radio-resistance, virulence and culture characteristics of certain pathogenic and related bacteria, 12018

Gamma rays—Continued  
 shelter through architectural design,  
 shielding requirements influence on  
 form, 5881  
 spectra, analysis by method of least  
 squares, computer program, 8630  
 thermal neutron capture gamma ray tech-  
 niques for nondestructive analysis of  
 reactor burnable poisons, 1790  
 variations in respiration process during  
 gamma radiation of plant tissue, 8511  
 Gammaridae, *see* Amphipods.  
 Gamser, Howard G., nomination, hearing,  
 9327  
 Gandy, H. W., laser material research, 5344  
 Ganglia, *see* Nerves.  
 Gansel, Charles R., do wet- and dry-site eco-  
 types exist in slash pine?, 12577  
 GAO, *see* General Accounting Office.  
 Gaposchkin, Cecilia Payne-, *see* Payne-Gap-  
 oschkin, Cecilia.  
 Garbage, *see* Refuse.  
 Garcia, Armando J. Alonso-, *see* Alonso-  
 Garcia, Armando J.  
 Garcia, Carlos V. De La Concepcion, *see*  
 Concepcion Garcia, Carlos V. De La.  
 Garcia, Pedro Lopez, *see* Lopez Garcia,  
 Pedro.  
 Garcia, R. M., moisture-retention capacity of  
 litter under Arizona chaparral communi-  
 ties, 14112  
 Garcia-Hernandez, Fernando O., relief, 798,  
 9220, 10531, 12154  
 Garciga, Carlos E., relief, 13751, 16221,  
 17522  
 Garcini, Mario R., relief, 13768, 16220, 17521  
 Garden Grove, Calif., area wage survey,  
 12773  
 Gardening, vegetable, Caribbean area, 15836  
*see also* Gardens.  
 Gardens:  
 home and garden bulletins, 31, 1697-98,  
 4107, 5629-33, 7272, 8831-32, 10171,  
 11930-931, 13224-226, 14743-744,  
 15850-855, 17313-319  
 home, chrysanthemum growing, 13224  
 home fruit—  
 northern Great Plains, 7272  
 Pacific Coast States and Arizona, 5635  
 suburban and farm vegetable gardens,  
 planning, planting, etc., 8831  
 watermelons, 4118  
 Gardner, Daniel E.:  
 foreign trade regulations of—  
 Angola, 7574  
 Mozambique, 4437  
 Republic of Zambia, 10459  
 Sierra Leone, 12135  
 Somali Republic, 12137  
 Gardner, Dwayne E., Federal assistance for  
 educational planning, acquiring and de-  
 veloping sites and constructing facilities,  
 10931  
 Gardner, H. R., effect of sample size and en-  
 vironmental conditions on evaporation of  
 water from soil, 10  
 Gardner, John W.:  
 creative federalism, 2377  
 remarks, June 30, 1966, 2377  
 Gardner, R. B., designing efficient logging  
 systems for northern hardwoods, using  
 equipment production capabilities and  
 costs, 2330  
 Gardner, T. Estelle, low-temperature thermo-  
 dynamic properties of hydrates of beryl-  
 lum sulfate, 9777  
 Garfield, Frank R., toward understanding of  
 whole developing economic situation, 4792  
 Garfield County, Okla., soil survey report,  
 18214  
 Garfinkle, M., stereographic representation  
 of Knoop hardness anisotropy, 18051  
 Garman, Eddie, relief, 12231, 14890  
 Garmendia de Alsina, Rita M., relief, 9196  
 Garner, J. D., emergency evacuation tests of  
 crashed L-1649, 10321

Garnet, yttrium iron garnet rods, study re-  
 veals new magnetostatic echo mode,  
 12889  
 Garnishment, *see* Attachment.  
 Garrett, W. D., influence of surface-active  
 material on properties of air bubbles at  
 air/sea interface, 17088  
 Garrick, B. J., analysis of nuclear power  
 plant operating and safety experience,  
 12007, 13327  
 Garrick, J. A. F., sharks of genus *Isurus*, etc.,  
 6946  
 Garringer, Darwin J., flight demonstration  
 of skin-friction gage, 6877  
 Garrison, G. W., jr., instabilities in linear  
 Hall current accelerators, 5175  
 Gary, Ind., midtown west, aid to families  
 with dependent children, 13435  
 Gas:  
 census of mineral industries, 1963—  
 crude petroleum and natural gas, in-  
 dustry statistics, 5847  
 oil and gas field services, industry statis-  
 tics, 1854  
 characteristics and distribution in western  
 Europe, 16102  
 cold, with hot plasma, production of in-  
 verse population by mixing, USSR  
 study, 17866  
 density measurements using light scat-  
 tering, 11490  
 drilling in sea regions, USSR study, 9640  
 dynamics of 2-phase liquid-gas weightless  
 medium with aid of surface effects, con-  
 trol, 11562  
 extraction, census of mineral industries,  
 1963, industry statistics, 7465  
 flow in chemical nonequilibrium, numerical  
 integration methods for computing, criti-  
 cal analysis, 15568  
 flowing axially through constricted arc,  
 characteristics, numerical calculations,  
 12955  
 gas-reservoir properties determined from  
 pressure buildup data, 15479  
 heating value of high purity methane, cal-  
 culation for reference material, 2743  
 industry—  
 injury experience, 16851  
 rapid development in USSR, 2451  
 injected, in supersonic stream, concen-  
 tration measurements, 8489  
 interstate compact to conserve oil and  
 gas—  
 consent of Congress to extend—  
 hearing, 15042  
 report, 10737  
 report of Attorney General, 15431  
 leak detector is simple and inexpensive,  
 6827  
 leases, reinstatement, etc., by Secretary of  
 Interior, hearings, 13708  
 liquefied petroleum (LP) gas dealers,  
 census of business, 1963, retail trade,  
 4270  
 liquefied streams, mixer conditions tem-  
 perature, 5219  
 low rate flow switch, used for gas or liq-  
 uid, 8477  
 natural—  
 accumulation in sedimentary rocks,  
 gravimetric effects, 12608  
 act—  
 amend, hearings, 6093  
 regulations under, 2255, 3817, 11028,  
 15247  
 blast injection, blast furnace operation,  
 12828  
 isotopic abundance of neon, etc., rel. to  
 helium genesis, 9785  
 liquids and liquefied refinery gases, min-  
 eral industry survey, monthly, 3603  
 mineral industry surveys—  
 monthly, 3602  
 quarterly, 3604

# INDEX 1967

## Gas—Continued

natural—continued  
minerals yearbook chapter, 2567  
pipeline safety regulations, hearings, 16403  
plants, processing, in U.S., 8372  
producers sales to interstate pipeline companies, 7973  
safety of interstate pipelines, hearings, 6093  
United States, 1965, analyses, 2543  
pressure feeds film into camera at high speeds, 5143  
publications, price list, 2803  
radon, useful for medical purposes, safely fixed in quartz, 6695  
retail prices and indexes, 3830  
synthesis, noble metals, molybdenum and tungsten as catalysts, 12827  
temperatures, self-balancing line-reversal pyrometer automatically measures, 15358  
*see also* Pipe lines.  
Gas appliances, market for gas equipment in Western Europe, 16102  
Gas bearings, *see* Bearings (machinery).  
Gas chromatographs, *see* Chromatographs.  
Gas chromatography, *see* Chromatography.  
Gas-cooled reactors, *see* Reactors (atomic).  
Gas dynamics, *see* Aerodynamics.  
Gas equipment and appliances, *see* Gas appliances.  
Gas generators, high-performance Brayton cycle radial-flow, design and fabrication, 8409  
Gas pipe lines, *see* Pipe lines.  
Gas turbines, *see* Turbines.  
Gas wells, *see* Gas.  
Gaseous core nuclear rockets, *see* Rockets.  
Gaseous-film cooling of rocket motor with injection near throat, 6882  
Gases:  
centered 1-dimensional unsteady expansion of reacting gas mixture subject to vibrational and chemical nonequilibrium, 6891  
compressible gas, throttling elements in flow, USSR study, 4962  
contaminants during vacuum chamber evacuation detected with quartz crystals, 14416  
cosine law in kinetic theory of gases, 9928  
cryogenic, fast response thermocouple measurement of temperatures, 6820  
diffusion of impurities into silicon from gaseous sources, 1421  
dilute gas-solids mixture, heat transfer characteristics in externally heated tube, numerical method for determining, 14326  
electric dipole moments for molecules in gas phase, selected values, 17035  
equilibrium thermodynamic properties, programs for computing, 9898  
evolution, report, 14518  
exhaust, hot, surface heating rates and pressures, predicting, 6795  
expired, multicomponent, instantaneous monitoring, 2601  
flammable, temporary lights, maritime safety data, 17889  
flow rates, device accurately measures and records, 2677  
flowing through wire matrices at surface temperatures to 5500° R, forced-convection heat-transfer correlations, 9913  
gas containing heat sources, digital computer program for calculating steady temperature and density distributions, 16987  
gas controlled bearing supports, 17975  
gas motivated solids dispersion devices, design, 6687  
gas-solids suspensions, power required to circulate, 15483  
heavy-atom, absorptive properties, 5182

## Gases—Continued

high-pressure, precise analytical samples, system automatically supplies, 11442  
high temperature—  
experimental determination of transport properties, 11412  
utilization for advanced tip turbine fans, 4221  
hot flue, sulfur dioxide removal, process development, 12831  
industrial, current industrial reports, 5864  
inhomogeneous, infrared spectral transmittance, calculation, 5218  
inorganic, current industrial reports, 8939, 10354  
ionized, magnetically induced nonequilibrium electron temperatures, 9995  
irradiated, transferred without contamination or dilution, 8469  
isentropic flow solutions for reacting mixtures in thermochemical equilibrium, 16979  
kinetic theory of bimolecular chemical reaction, diffusive drag, and other processes in mixture, 6909  
liquefied-gas storage containers, covering, USSR study, 15403  
nitrogen tetroxide disposal unit combustion products, 11515  
nongray, nonscattering, approximation for radiant energy transport, 11544  
nuclear blast, underground, escape from ground, 1268  
nuclear explosions underground, vent-gas treatment plant, 1809  
PVT data from Burnett compressibility apparatus, method for treating, 16863  
radiometer-pyrometer, tech brief, 6769  
seeded, thermal absorption, 12866  
shield, inert, monitored by portable spectrometer in welding process, 16960  
space-cabin atmospheres, engineering tradeoffs of one- vs. 2-gas systems, literature review, 12879  
strong acid, removal from recycled atmospheres by dry-packed beds, 5350  
supersonic gas flow around blunt bodies, 12974  
synthesis, using recycle systems, kinetics, 9790  
thermodynamic properties—  
related to expansion of 2-component gas, 11449  
Van der Waals fluid in 2-phase region, 11379  
thermophysical properties of gases below 300° K, 6635  
toroidal ring prevents gas ignition at vent stack outlet, 9853  
trace constituents of closed ecological system, delineation program, 7369  
velocity measured by laser Doppler flow meter, 6847  
*see also* Liquefied petroleum gases—Mine gases—Noble gases—*also* names of gases.  
Gaskets:  
and combination space provides effective static seal, 2630  
rubber and alumina, retain vacuum seal in high temperature EMF cell, 5141  
survey, 5195  
Gasoline:  
Federal tax refund, nonhighway and transit users, 1143  
motor, petroleum products survey, 2569, 12811  
outlets at certain postal installations, potential savings available through establishment, Post Office Department, GAO report, 6378  
publications, price list, 2803  
Gasoline service stations, *see* Service stations.  
Gassville, Ark., shirt plant, rural industrialization case study, 17711

Gastroenterology abstracts and citations (periodical), 3372

Gastropods:

- Haliotidae through Adeorbidae, from western Pacific Islands, 4890
- upper Cretaceous, from Pierre shale at Red Bird, Wyo., 8161

Gatchell, Charles J., way to reduce highway guardrail costs, machine-driving of wooden posts, 11138

Gates, George L.:

- deposition of barium sulfate from sea water in oil-well rotary pumps, 11386
- gas-reservoir properties from pressure-buildup data, 15479

Gates, O. R., determination of silver and indium in magnesium base alloys, lead in indium, and zirconium in hafnium, 9985

Gates, electrically operated, for livestock markets, 10153

Gathman, Stuart G., absolute electric field measurements using field mills, 13035

GATT, *see* General agreement on tariffs and trade.

Gause, Gerald W., silvical characteristics of bigcone Douglas-fir, 14143

Gaussian processes, *see* Statistical processes.

Gaussian quadrature formulae, *see* Quadrature approximations.

Gavett, Thomas W. quality and pure price index, 8322

Gavin, James M., testimony, 6102

Gay, Thomas N., list of standing committees, and committee assignments of Senators, etc., 9179

Gazelle, Stanley A., oilseed meals, postwar trends in production and use, 9391

GE series, 3375

Gearing (planetary):

- system to control fluid mixture ratio, conceptual stage, 5201

Gears:

- forged with integral teeth high energy rate system evaluation, 8898
- spur gear design technology, advancement, 5747

Gebhardt, M. R., determining spread factor of water droplets, 10149

GED, *see* Bis(2-guanidoethyl) disulfide.

Gelechiidae, *see* Microlepidoptera.

Gelechioidea, *see* Microlepidoptera.

Gelfan, Lewis D., FAA aviation news, 944

Gels:

- Ben-a-gel, water system, thixotropic suspensions, use of hysteresis loop method to study, 10005
- hydrogen slush, hydrogen gel utilization as fuels for space vehicles, 18006

GEM, *see* Ground effect machines.

Gemini, *see* Spacecraft.

Gemini project, *see* Project Gemini (man-in-space program).

Geminus, LAC 27, lunar chart, 15886

Genealogy, records in National Archives, 17027

General Accounting Office:

- annual report—
- departmental edition, 2340
- document edition, 2012
- appropriations, 1968, legislative—
- hearings, 10633, 12398
- law, 13537
- reports, 10617, 13813

Comptroller General decisions—

- B-(series), 3129
- digests, 3207
- July 1, 1965-June 30, 1966 bound volume, 15292
- monthly, 3128
- findings and recommendations for improving Government operations, 15294, 16158

GAO review (periodical), 3371

policy and procedures manual for guidance of Federal agencies, 6374, 8128-29, 11142-143

General Accounting Office—Continued

- publications, list, 16667
- submission of agency accounting systems for approval, hearing, 737
- transportation manual for guidance of Federal agencies, 3370

General Advisory Committee to Atomic Energy Commission in commemoration of 100th GAC meeting 8913

General agreement on tariffs and trade:

- declaration on provisional accession of—
- Argentina, 11862
- Iceland, 7151
- Tunisia, 2894
- United Arab Republic, 11863
- Yugoslavia, 2895

Kennedy Round—

- agricultural trade negotiations, report, 16643
- completion, results and future impact upon U.S. businessmen (address), 18219
- duty changes in fishery products resulting from GATT negotiations, 12544
- foreign agricultural trade (remarks), 13243
- foreign policy aspects—
- hearings, 730, 10650
- subcommittee report, 10651
- progress and expectations (address), 2418
- Spanish economic development (remarks), 10468
- Spanish edition, 10464
- trade negotiations (address), 14663
- trade policies, hearing, 7805
- modifications in U.S. tariff rates, depth of cuts, cotton, wool and man-made fiber textiles, 13354
- protocol amending general agreement to introduce pt. 4 on trade and development, 7174
- protocol for accession of Yugoslavia to agreement, 10100
- staging of tariff concessions, agreement with—
- Canada, 17247
- Japan, 15802
- United Kingdom, 15803
- trade agreement with Japan, 5540
- trade agreements program and GATT, 1965 report—
- departmental edition, 5404
- document edition, 4469
- trade conference 1964-67, United States negotiations, 13128-129, 15751

General Beverages of Minnesota, Inc., motor carrier accident, 4928

General Counsel, Agriculture Dept., appropriations, 1968, hearings, 10629, 12397

General Counsel, Housing and Urban Development Dept., nomination of Thomas C. McGrath, jr. hearing, 6092

General Counsel of Treasury Department:

- digest of opinions, 2150
- report for Coast Guard, 7844

General Management Training Center, CSC, purpose, etc., 5934, 7548

General Motors Corporation:

- adjustment assistance case pertaining to certain workers, excerpts from Tariff Commission report to Automotive Agreement Adjustment Assistance Board, 11882
- wage chronology, 2506

General Services Administration:

- annual report, 4883
- appropriations, 1968—
- hearings, 9145, 15147
- reports, 10600, 15131
- basic laws and authorities GSA handbook, revised pages, 15303
- disaster control and civil defense in Federal buildings, handbook change, 14613
- employees, relief, 16171

## General Services Administration—Cont.

- handtool and paint stocks, transfer from Defense Dept., GAO review, 9546
- interagency motor pool vehicles, savings by adopting manufacturers' recommended preventive maintenance programs, GAO report, 16673
- mobilization programs, hearing, 12186
- motor vehicle utilization in Cape Kennedy interagency motor pool, GAO report, 2353
- policies and practices for rebuilding used motor vehicle tires, GAO review, 14162
- press releases 3732
- Public Printer to print for and deliver to GSA additional copy of certain publications, law, 396
- regional contracts for repair and maintenance of selected office machines, savings available through expanded use, GAO report, 8148
- responsibility for care and handling of excess real and related personal property, report, 13794
- revision of method of supplying commercial rental cars, GAO report, 9558
- sale of federally owned electric power and salt water distillation facilities to government of Virgin Islands, Virgin Islands Corporation, Interior Dept., GAO review, 8146
- savings available through use of formal advertising in contracting for automotive tires and tubes, GAO report, 9557
- General theory of asymmetric waves in circular waveguide with open end, 11566
- Generating random information for experimental decision problems, 4225
- Generative organs tumors of secondary sex organs, 2841
- Generators, *see* names or types of generators.
- Genesee River and Valley :
  - basin, engineer report—
  - departmental edition, 2218
  - document edition, 2067
- Genetics :
  - effect of chemical compounds combined with ionizing radiation, mutagenic activity, USSR studies, 2438
  - forest trees, bibliography, 4827
  - genetic traits in tetraploid and diploid alfalfa, illustrated summary, 8849
  - hexaploid sweetpotato, theoretical segregation ratios of qualitatively inherited characters, 5688
  - introduction into agriculture, USSR study, 1189
  - 2d Rumanian National Symposium, interview concerning meetings, 12703
  - theory of genetic information, USSR studies, 17860
- Genetics (USSR periodical) :
  - translations, 3374
- Geneva, Switzerland, International Labor Organization conference, House delegates to attend, appoint, report, 10604
- Geneva conventions, agreements relative to treatment of prisoners of war, Army pamphlet, 15939
- Geniostoma, species in New Herbides, Fiji, Samoa, and Tonga, studies, title page and index, 17048
- Gennari, J. J., location of deep-ocean acoustic sources, 8588
- Genovese, Rosa A., relief, 821, 9213, 12235, 13508
- Gentile, Augustine, characteristics of persons with impaired hearing, 8660
- Geochemical prospecting, *see* Geochemistry—Prospecting.
- Geochemistry :
  - contributions to geochemical prospecting for minerals (series), 4986
  - data (series), 12606
  - error in data, theory, 8176

## Geochemistry—Continued

- estimating geochemical abundance, methods of computation, 9573
- field, statistical studies (series), 9573
- geochemistry of water (series), 11186
- prospecting, use of simple mercury vapor detector, 9568
- statistical studies in field geochemistry (series), 8176
- tungsten deposits, 1st all-Union conference, 1157
- Geodesy :
  - automation of geodetic work, Hungary, 15365
  - Eastern Europe, new development, 15358
  - geodesy and cartography (Hungarian periodical), translations, 17872
  - geodetic operations in U.S. and in other areas, through international cooperation, report, 14873
  - geodetic satellite observation station, agreement with—
    - Japan, 8732, 11867
    - Mexico, 11859
  - Hungary, international geodetic conference, 6545
  - passive geodetic satellite—
    - canister assemblies, 5184
    - ground-based photometric surveillance, 11413
    - inflation rate study, 8426
  - pathfinders from the stars, new scientific documentary film, announcement, 16085
  - satellite, use of resonant librating orbits, 14476
  - technician, examination announcement, 1910
  - three-dimensional worldwide geodetic reference system, up-dated concept, 6218
  - use of artificial earth satellites, USSR study, 1212
  - USSR, scientific research goals, 14257
  - see also* Surveying.
- Geodetic technicians, examination announcement, 13445
- Geodetics, *see* Geodesy.
- Geographers, activities at Moscow University, 12662
- Geographic bulletins, 11826, 17222
- Geographic distribution of Federal funds for research and development, 13012
- Geographic mobility, population of United States, 1874
- Geographic Names Board :
  - decision lists, 1105, 6387, 9559, 14166
  - gazetteers, 2355, 8152
- Geographic note, GE series, 3375
- Geographic reports :
  - Census Bureau, 4356, 16029
  - State Department, 11827, 17223
- Geographical monographs (Communist China periodical) :
  - translations, 1317
- Geographical names :
  - Antarctica, standard place names, 2355
  - Chile, standard place names, 8152
  - decision lists, 1105, 6387, 9559, 14166
  - gazetteers, 2355, 8152
  - United States, decisions list, 1105
  - see also* names of localities.
- Geography :
  - census, 1970, computer-based geographic coding (paper), 4304
  - classification, Library of Congress, 5086
  - distance responses by Air Force Officers in mental status examination, 4174
  - geographic bulletins, 11826, 17222
  - geographic note, GE series, 3375
  - geographic reports—
    - Census Bureau, 4356, 16029
    - State Department, 11827, 17223
  - geographical monographs (Communist China periodical), translations, 1317
  - instruction, financial assistance guidelines under NDEA, 13956
  - location codes, 12596



Geography—Continued

memoirs of geography (Chinese periodical), translations, 1312  
national defense education act—  
institutes for advanced study, summer 1967, handbook for directors, 1003  
loans to private nonprofit elementary and secondary schools for equipment and materials, 1007  
world geography II, high school course, study guide, 15180  
see also names of places.

Geography and History, Pan American Institute of, see Pan American Institute of Geography and History.

Geohydrology, see Hydrogeology.

Geological review (Chinese periodical): translation, 1161

Geological Survey:

appropriations, 1968, hearings, 7734  
bulletins, 1110-13, 2356-61, 4886-88, 6388-95, 8153-58, 9560-62, 11161-169, 12597-604, 14168-169, 15304-306, 16681-687, 17817-821  
circulars, 1114-6396, 9563-71, 15307, 16688-689  
new reports about water in Pacific Northwest, 11170  
press releases, 3733  
professional papers, 1119-24, 2363-72, 4889-91, 6397-6408, 8159-76, 9572-74, 11171-182, 12606-615, 14170-175, 15308-311, 16691-699, 17823-827  
program briefing hearings, 10655  
publications, 17828  
monthly list, 3625  
reports and maps released only in open files, lists, 9563, 15307  
research, summaries, 2372, 4891, 11182, 14175  
water supply papers, 1128-33, 2374-76, 4892-95, 6409-12, 8177-85, 11186-192, 12617-618, 14177-184, 15312-315, 16700-705, 17829-834

Geologists, examination announcement, amendment, 5920

Geology:

Adam Weiss Peak quadrangle, Hot Springs and Park Counties, Wyo., 2360  
Arabian Peninsula, 1124, 6405-7, 8173  
areal—  
and aeroradioactivity survey of—  
Pittsburgh area, 1779  
southeastern New York and southern New England, 1778  
northern Alaska, exploration (series), 8159  
Western Mojave Desert, Calif., 17824  
Atlantic Continental Shelf and slope, geologic background, 4889  
Bahrain, 6405  
bedrock—  
Chepachet quadrangle, Providence County, RI, 16685  
Island Falls quadrangle, Aroostook and Penobscot Counties, Maine, 6401  
Shin Pond and Stacyville quadrangles, Penobscot County, Maine, 17825  
Big Sandy Creek Valley, Lincoln, Cheryenne, and Kiowa Counties, Colo., 11191  
Bosque del Apache National Wildlife Refuge, 17821  
Cascade Springs quadrangle, Fall River County, S. Dak., 14168  
Charlot site vicinity, Lisburne Peninsula, northwestern Alaska, 8162  
Connors Pass quadrangle, Shell Creek range, east-central Nevada, 16694  
contributions to economic geology (series), 4888, 6390-91, 8157-58, 12602, 15306, 16687  
title page and contents, 16681  
contributions to general geology (series), 1111, 2358, 2360, 4887, 11165, 12599-601, 16684-686

Geology—Continued

Eddy County, N. Mex., between Lake McMillan and Carlsbad Springs, 8178  
Eldorado Springs quadrangle, Boulder and Jefferson Counties, Colo., 11165  
epigenetic uranium deposits in sandstone in United States, 8167  
French Prairie area, northern Willamette Valley, Oreg., 14179  
general and engineering geology of United States Air Force Academy site, Colo., 11179  
geologic interpretation of—  
aeromagnetic survey of Iron Springs district, Utah, 11173  
gravity and aeromagnetic maps of Tintic Valley and adjacent areas, 8164  
geologic mapping in sea regions, USSR study, 9640  
geologic occurrence of monazite, 17826  
geological information form for core, grab and dredge samples, coding and key-punching instructions, 6997  
Geological Survey research, summaries, 2372, 4891, 11182, 14175  
geology and uranium deposits of Ralston Buttes district, Jefferson County, Colo., 15308  
geology and uranium deposits of southern Black Hills (series), 12597, 14168  
geomorphology—  
meeting, Chinese geographical conference, Communist China, 1965, collected works, 11255  
probability concepts, 2366  
Green River formation, Utah and Colo., 12610  
Greenville quadrangle, Piscataquis and Somerset Counties, Maine, 16684  
Guam, Mariana Islands (series), 1119  
Hot Springs quadrangle, Fall River and Cuarter Counties, S. Dak., 12597  
Hurley West quadrangle, Grant County, N. Mex., 12601  
igneous, Dry Mountain quadrangle, Jefferson County, Mont., 2358  
Iniskin-Tuxedni region, Alaska, 8163  
Iraq, 6407  
Kelso Junction quadrangle, Mich., 6392  
Kero River alluvial-fan area, ground water, 1116  
Kodiak and nearby islands, Alaska, geologic effects of earthquake, 1121  
Laguna district, N. Mex., 8165  
Lake Bonneville, Weber Delta district, including Ogden, Utah, 6400  
Laramie County, Wyo., 8179  
Late Cretaceous and Cenozoic, with emphasis on Enos Creek detachment thrust fault, 2360  
Lawson-Dumont-Fall River district, Clear Creek County, Colo., 16683  
Mammoth quadrangle, Pinal County, Ariz., 11163  
Menominee iron-bearing district, Dickinson County, Mich., and Florence and Marinette Counties, Wis., 6398  
Mono Craters quadrangle, Calif., structure and metamorphism, 4887  
Mount Fairplay area, Alaska, 12599  
Mount Wilson quadrangle, western San Juan Mountains, Colo., 15304  
North American, abstracts, 2980  
northeastern Nassau County, Long Island, N.Y., 4894  
northern Elkhorn Mountains, Jefferson and Broadwater Counties, Mont., 2367  
northern part of Salar de Atacama, Antofagasta Province, Chile, 11164  
Norwood quadrangle, Norfolk and Suffolk Counties, Mass., 6389  
Parkfield-Cholame, Calif., earthquakes, June-Aug. 1966, surface geologic effects, 9574  
permafrost tunnel, Fairbanks Alaska, 17378



Geology—Continued

- Philipsburg district, Granite County, Mont., 15305
- planning, financing and execution of geological work, decision of Council of Ministers, Rumanian Socialist Republic, 12735
- Portage County, Ohio, 11172
- Potosi quadrangle, Grant County, Wis., and Dubuque County, Iowa, 6388
- publications, price list, 11712
- Puddle Springs quadrangle, Fremont County, Wyo., 12602
- Republic quadrangle and part of Aenens quadrangle, Ferry County, Wash., 16682
- Rock Run and Goshen Valley areas, northeast Alabama, 9561
- Rumania, planning, financing, and performance of operations, 11252
- Salt Creek area, Bitter Lake National Wildlife Refuge, 17821
- Savannah River and vicinity, for atomic energy plant, 16705
- sedimentary, Saudi Arabia, 1124
- selected quadrangles in Massachusetts (series), 6389, 9560
- Shawnee County, Kans., 11161
- shorter contributions to general geology (series), 1120, 6403, 8166, 8172, 12611-612, 14170, 15309, 16692, 17825
- Steeple Rock mining district, Grant County, N. Mex., 6390
- Stewart Flat quadrangle, Caribou County, Idaho, 11162
- Taunton quadrangle, Bristol and Plymouth Counties, Mass., 9560
- theoretical papers in hydrologic and geomorphic sciences (series), 2366
- Umlat-Maybe Creek region, Alaska, 8159
- upper Mississippi Valley-zinc-lead district (series), 6388
- upper Sevier River basin, Utah, reconnaissance, 14180
- Ute Mountain Indian Reservation, Colo. and N. Mex., 6409
- see also Hydrogeology—Permian period—Pre-Cambrian period—Stratigraphy.
- Geomagnetism, see Terrestrial magnetism.
- Geometric efficiency of electroformed nickel solar concentrator, 14469
- Geometric theory of optimum disorbit problems, 8427
- Geometrical instruments, classification definitions, 18120
- Geometry:
  - configuration geometry, effects on supersonic aerodynamic characteristics of launch vehicle, 5239
  - effect on sonic boom, 18041
  - emergency construction and geometric design for roads, streets, walks, and open storage areas at military installations, 5742
  - metal distribution in 5 veins of Fresnillo mine, Zacatecas, Mexico, 9771
  - radiative, conductive, and convective heat transfer problems, computer program solves, 17959
  - solving crime by geometry, USSR study, 1238
  - space oriented, for secondary levels, supplement, 8513
  - turbine, variable, for small gas turbine engines, study, 11996
- Geomorphology, see Geology—Physical geography.
- Geophysical prospecting, see Prospecting.
- Geophysics:
  - American Meteorological Society abstracts, 3636
  - bedrock in Island Falls quadrangle, Aroostook and Penobscot Counties, Maine, 6401
  - geophysical abstracts, 3376
  - geophysical field investigations (series), 2368, 8164, 11173

Geophysics—Continued

- geophysics and space data bulletin, 3377
- preshot geophysical measurements at Pre-Gondola Project site, 15962
- regional investigations of Moab-Needles area, Utah, 2368
- solar-geophysical data (periodical), 10969
- Soviet bloc research (periodical), 3886
- Soviet, modern techniques used, 12669
- Georgaras, Demetrios K., relief, 7654
- Georgaras, James K., see Georgaras, Demetrios K.
- George, D'Arcy R., desulfating Great Salt Lake brines and sea water, 6688
- George, Donald A., insecticide residues on forage crops, 8803
- George, Ernest J., shelterbelts for northern Great Plains, 1689
- George, J., Mishell, address, Nov. 15, 1966, 2416
- George, Lawrence C., vapor pressure of metal halides, 16864
- George, M., DYNAGYRO, mechanical stability augmentation system for helicopters, 13307
- George, Samuel F., cross modulation in Scamp signal processor, 9990
- Georgetown commercial architecture, Wisconsin Ave., 11616
- Georgetown University:
  - charter, amend to clarify corporate name—law, 370
  - report, 4501
- Georgia:
  - census of agriculture, 1964, State and county statistics, 16038
  - census of manufacturers, 1963, area statistics, 1836
  - census of mineral industries, 1963, area statistics, 4283
  - climatological data, 3096
  - convey property situated therein, reports, 10528, 17630
  - county business patterns, 4310, 13369
  - electric rate book, 2248
  - employment security agency, State employment security agencies, ensure salary comparability, procedures, need for strengthening, Employment Security Bureau, Labor Dept., GAO report, 8134
  - equal opportunity in federally assisted agricultural programs, 16061
  - landings, fish and shellfish, 3378, 16613
  - mineral industry, minerals yearbook chapter, 2552
  - north, forest industry outlook, 1650
  - precipitation data, hourly, 3401
  - soil survey laboratory data and descriptions, 18216
  - southern, Gulf Series in subsurface, 16692
- Georgian Soviet Socialist Republic, medical science, 1155
- Georgiev, Steven, feasibility study of experiment for determining properties of Mars atmosphere, 14371
- Georgiyev, Vladimir, Vice President, Bulgarian Academy of Sciences, interviewed, 4991, 6480
- Geothermal energy:
  - steam and associated resources, disposition, hearings, 4546, 12411, 15037
  - steam resources, develop, message from the President, 5992
- Gerald, John O., freight car situation and prospects, 10919
- Gerardi, Peter A., space flight emergencies and space flight safety, survey, 9171
- Gerber, Carl R., civil, industrial, and scientific uses for nuclear explosives, bibliography, 5787
- Gerhards C. C.:
  - physical and mechanical properties of—blackbutt eucalyptus grown in Hawaii, 2328
  - Norfolk-Island-pine grown in Hawaii, 8105

- Geriatrics, USSR conferences, 1185  
 Gerig, Daniel, pension and medical care legislation in Canada, 5516  
 Gerling Valley, project, drop structure, hydraulic model investigation, 6213  
 Germ-free life:  
     amicrobic mammals, raising, USSR study, 6483  
     gnotobiology, basic aspects, USSR studies, 6484  
     gnotobiology in Czechoslovakia, 16761  
 Germain, Charles J., cylindrical screen cage for rearing bark beetles, 14114  
 Germanium, extraction from coal fly ash and phosphorus furnace flue dust, 9789  
 Germany:  
     East, *see below*, Soviet zone.  
     Federal Republic—  
         economy, basic data, 10463  
         economic statistics, handbook, 3388  
         establishing business in, 10458  
         market for residential heating equipment, 5953  
         mineral industry, minerals yearbook chapter, 12801  
         paintings to be transferred in trust for Weimar Museum—  
             agreement, 7190  
             hearings, 741  
         postwar economic assistance claim, settlement, agreement, 11849  
         research vessel, Walter Herwig, 17772  
         travel to United States, market survey, 5583  
     foreign policy documents, 1625  
     German Democratic Republic, *see below*, Soviet Zone.  
     Soviet Zone—  
         East German couple reports on trip to North Vietnam, 11266  
         economy, basic data, 5956  
         German Democratic Republic agricultural institutions, research work, 6572  
         mineral industry, minerals yearbook chapter, 8347  
         North Vietnamese interviewed on Vietnam war by East German couple, 12672  
         plotters, use in air defense system, 2437  
     Third Reich, 1st phase, foreign policy documents, 1625  
     U.S. Army personnel ordered to, helpful hints, DA pamphlet, 13299  
     West, *see above*, Federal Republic.  
 Germination:  
     paper and yellow birch in simulated strip cuttings, 4849  
     percentage of filled fourwing saltbush seeds, 11128  
     white pine seed collected at weekly intervals from 5 trees, 12580  
 Gerontology, USSR conferences, 1185  
 Gerrity, Martin V., New Zealand's livestock and meat industry, 11097  
 Gerstenberg, H. M., Halpern-type neutron detector, 11592  
 Gerstle, Richard W., atmospheric emissions from nitric acid manufacturing processes, 5428  
 Gertler, Diane B., directory of Federal statistics for local areas, guide to sources, 1966, 1879  
 Gerver, Joan, community care of mentally ill, selected annotated bibliography, 1590  
 Geymeyer, Helmut G., influence of reinforcing details on yield line pattern and ultimate load-carrying capacity of reinforced concrete slabs, 17736  
 GF series, 180, 1881-82, 5886-87, 7492, 10380, 13399-400, 16030-31  
 Ghana:  
     agricultural commodities, agreement, 14684  
     foreign trade regulations, 4432  
     housing, basic information, 6418  
 Ghana—Continued  
     investment guaranties, agreement, 10104  
     labor conditions, 2510  
     mineral industry, minerals yearbook chapter, 8349  
 Ghazzally, Osman I., laboratory stress-deformation characteristics of soils under static loading, 2596  
 Ghetto, *see* Race problems.  
 Ghista, Dhanjoo N., structural optimization with probability of failure constraint, 5252  
 GI loans, *see* Loans.  
 Giachino, Fred E., air reservist, 3011  
 Gibberellin acid, spray effect on seedlings of eastern redcedar, bur oak, and red oak, 11129  
 Gibberellins gibberellin-induced growth of dormant sweetgum, 8093  
 Gibbons, J. F., BONUS core development program, 8901  
 Gibson, Frederick W., aerodynamic investigation of some high-drag entry shapes at Mach 15.4, 16986  
 Gibson, James O., passive geodetic satellite canister assemblies, 5184  
 Gieseman, Raymond W., underemployment concept, way to measure need for economic development in Appalachia, 10922  
 Gifford, Gerald F., influence of growth media, temperatures and light intensities on aspen root and top growth, 14091  
 Gifford Pinchot National Forest, progress report, 8055  
 Gift tax, *see* Inheritance and transfer tax.  
 Gifts:  
     District of Columbia uniform gifts to minors act, permitting deposit in savings and loan associations, etc., report, 13639  
     expenses, rules for deducting from income tax, 2410  
     foreign, acceptance by government officials and employees, establish basic uniform standards—  
         law, 391  
         Ramseyer rule print, 734  
 Gila River water supply outlook and snow surveys, 4044  
 Gila River Indian Reservation, leasing of Indian land for 99-year term, authorize, report, 12243  
 Gilbert, Carter R., revision of hammerhead sharks (family Sphyrnidae), 9952  
 Gilbert, Charles A.:  
     forearm vascular responses to lower body negative pressure and orthostasis, 4174  
     sodium and water excretion and renal hemodynamics during lower body negative, 14770  
 Gilbert and Ellice Islands, Ocean Island, mineral industry, minerals yearbook chapter, 9759  
 Gilbertson, E. C., training homemaker-home health aide in personal care, 15714  
 Giles, Robert E.:  
     remarks—  
         Jan. 24, 1967, 4426  
         Feb. 28, 1967, 5958  
 Giles County, Va., Clinton hematitic sandstone deposits, Butt Mountain area, 12819  
 Gilkey, Millard M., water requirements and uses in Wyoming mineral industries, 12796  
 Gilkey, Robert M., Jr., relief, 9080  
 Gill, Frank B., pelagic distribution of seabirds in western Indian Ocean, 14534  
 Gill, James R., Red Bird section of upper Cretaceous Pierre shale in Wyoming, 2363  
 Gillespie, W. J.:  
     effect of atrial systole on right ventricular stroke output in man, 11956  
     vascular and lymphatic absorption of radioactive albumin from lungs, 13269  
 Gillett, Philip W., college algebra, study guide, 9363

# INDEX 1967

- Gillies, Roderick M.:  
 remarks—  
 Jan. 24, 1967, 4447  
 Jan. 27, 1967, 4448
- Gilliland, E. R., use of magnetic fields to produce ionic concentration gradients, 9589
- Gilliland, Whitney:  
 addresses, etc.—  
 Nov. 30–Dec. 2, 1966, 1898  
 Apr. 13–14, 1967, 8971  
 Oct. 12, 1967, 17447  
 Oct. 17, 1967, 17449
- Gilmore, John S.:  
 channels of technology acquisition in commercial firms, and NASA dissemination program, 14375  
 defense systems resources in civil sector, evolving approach, uncertain market, 17371
- Ginning, *see* Colton gins and ginning.
- Ginseng, growing, 14742
- Girl Scouts of United States of America, report, 13551
- Girls:  
 abilities, in 4-H clothing projects, 48  
 counseling, awareness, analysis, action, 13968  
 every girl needs chance to become somebody, Job Corps information, 4686  
 expanding opportunities, their special counseling needs, 11909  
 opportunities in crafts and trades (addresses), 8796  
 7-to-10-year old, in selected Southern States, basic data on metabolic patterns, 13227  
 where will you go when the go-go's gone? employment information, 8797
- Giron, David J., viral antibody production in animals exposed to space cabin environment, 74
- Gitterman, Henry, use of waste heat for production of fresh water, 6450
- Giulianetti, Demo J., longitudinal aerodynamic characteristics in ground effect of large-scale, V-STOL model with 4 tilting ducted fans arranged in dual tandem configuration, 18045
- Guiliano, Vincent E., laboratory evaluation of message retrieval systems, 4166
- Glust, Ernest H., mobilization of Marine Corps Reserve in Korean conflict, 17906
- Glacier National Park, general information, 9958
- Glacier Park Wilderness, designate, hearings, 15163
- Glacier Peak Wilderness, modify, report, 17631
- Glaciers:  
 Alaska earthquake, 1964, effects on glaciers, 11178  
 ice sheet dimensions, effect of basal water layer, 4196  
 non-temperate, sliding, 7379  
 thermal probe, heat transfer and performance analysis, 17377
- Gladolus, production and sales, etc., 1010S
- Glands, *see* Adrenal glands.
- Glare reduction surfaces for automotive vehicles, Federal standard, 6323
- Glaser, Peter E., thermal insulations systems, 17953
- Glaser, Rudolf F., alysymmetric vibrations of partially liquid-filled cylindrical containers, 12942
- Glasgow Air Force Base, facilities, use by Northwest Regional Services Corporation, hearings, 15156
- Glass:  
 cracks in glass electrical connector headers removed by dry blasting with fine abrasives, 12886
- Glass—Continued  
 fibrous glass, 1966, current industrial reports, 10353  
 figured, corrugated, plate, sheet, and spandrel, Federal item identification guide, 6149  
 flat, current industrial reports, 3170  
 formulation, with high coefficient of thermal expansion, 8400  
 oxide-glass compositions, hot rolling, 12820  
 sheet, blown or drawn, flat, Tariff Commission report, 17254  
 soda-lime, spreading of organic liquids on, effect of adsorbed water, 18110  
 viscosity of standard lead silica glass, 1520  
*see also* names of manufactured articles and materials.
- Glass bead shot peening retards stress corrosion failure of titanium tanks, 14413
- Glass fibers:  
 fabrication techniques for fiber glass reinforced primary aircraft structures, 4222  
 laminated, liquid crystals detect voids, 16941  
 nonwoven glass fiber mat reinforces polyurethane adhesive, 11450
- Glass Mountains, Permian rock units, nomenclature, etc., 1113
- Glasses, *see* Spectacles.
- Glassware, consumer, scientific, technical, and industrial, current industrial reports, 4324, 13390  
*see also* names of articles manufactured from glass.
- Glatt, H. V., study of man in oxygen-helium atmosphere, renal response, 87
- Glaucoma, hope through research, 18167
- Glen Canyon Dam, general information, 11773
- Glen Canyon National Recreation Area, general information, 2755
- Glendale, Ariz., land conveyance, report, 15129
- Glenn, William G., normal human serum parameters for simulated altitude and aerospace flights, etc., 7341–42, 8868
- Glennon, John P., American foreign policy, current documents, 8705, 17211
- Glick, Norman D., establishing business in Japan, 232
- Glick, Perry A., aerial dispersal of pink bollworm in U.S. and Mexico, 5678
- Glide path systems, altitude rate command system, 9997
- Glider (aircraft):  
 paraglider configuration having large tapered leading edges and keel, free-flight drop-test investigation, 1475
- Globulin:  
 antihemophilic, in-vivo inactivation by hydrazine, relation to fibrinolytic mechanism, 14771  
 protein structure according to data from X-ray structural crystallography, USSR study, 12726
- Gloiopotes, *see* Copepods.
- Glossaries:  
 abbreviations used in Latin American press, 12721  
 plastic terms, consensus, 4680  
 uranium and thorium-bearing minerals, 17619
- Glover, James E., Turtle Creek, Pa., channel improvement, 7932
- Gloves, current industrial reports, 4328, 13392
- Glow discharge density sensor probe life is extended, 14430
- Gluckman, Albert G., proper rotations of 3-dimensional orthogonal frame, 6861
- Gluckman, Lillian A., control now for clean air, 3d National Conference on Air Pollution, 14620

- Glucose:  
arterial, in anesthetized dog, hydrazine effect, 7359  
blood glucose concentration, affects effects of hydrazine on fat transport, 65  
serum levels, periodontal status, 4178  
values in Macaca mulatta monkey, 7368
- Glue, *see* Adhesives.
- Glycogen, liver, in anesthetized dog, hydrazine effect, 7359
- Glyptocells, *see* Beetles.
- GMC, *see* General Motors Corporation.
- Gneiss, Carney Lake gneiss and associated rocks, geology, 6398
- Gnotobiotics, *see* Germ-free life.
- Goals for urban America, 17022
- Gobel, Julio J. Castellanos Lopez, *see* Castellanos Lopez, Julio J.
- Gobetz, Frank W., minimum-impulse time-free transfer between elliptic orbits, 1432
- Goddard, James E., emerging program for managing flood losses, 13162
- Goddard, James L., address, Sept. 27, 1966, 14075
- Goddard Space Flight Center:  
Goddard '66, year in review, chronology, etc., 12846  
publications, 1959-62 collection, 11578-579
- Godin, Alfred J., test of grit types in alleviating lead poisoning in mallards, 17786
- Godley, Frank H., fertility and educational attainment, Puerto Rico, 15715
- Goerlitz, Donald P., determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography, 15312
- Gozel, Walter C., problems in depth perception, perceived size and distance of familiar objects, 138
- Gold, Harold, slosh dynamics study in near zero gravity, description of vehicle and spacecraft, 11530
- Gold:  
deposits, United States production potential, 9755  
determination in geologic materials by solvent extraction and atomic-absorption spectrometry, 16688  
distribution—  
Cripple Creek district, Colo., 9571  
diamond-drill core from Homestake Mine, Lead, S. Dak., 6679  
Ely mining district, White Pine County, Nev., 9564  
domestic mining industry, increase production, etc.—  
hearings, 12302  
reports, 649, 16288  
gold-bearing sedimentary rocks in north-west Wyoming, preliminary report, 9569  
its properties, fabrication and uses, 2742  
mine production, monthly, 3379  
minerals yearbook chapter, 6634  
mining industry, production incentives—  
hearing, 7814  
report, 7780  
mining subsidies, provide grants-in-aid to States—  
hearings, 12302  
report, 16288  
production and consumption, 1964, report, 8381  
radiogold, application in ovarian cancer treatment, 5031  
substituting gold for silver improves electrical connections, 15528  
United States movements, 12093  
monthly, 3983
- Gold (money):  
Mint Bureau, report, 8381
- Gold Mines Assistance Commission:  
establish—  
hearings, 12302  
reports, 649, 16288
- Golberg, Aaron, genus *Melochia* L., 14532
- Golden Spike Centennial Celebration Commission:  
establish—  
law, 14914  
reports, 924, 9289, 13673
- Goldfield, Edwin D.:  
county and city data book 1967, statistical abstract supplement—  
departmental edition, 12041  
document edition, 12201
- Golding, Nathaniel, labor's view of manpower policy, 14279
- Goldfrank, Esther S., artist of Isleta paintings in pueblo society, 14547
- Goldman, Louis, J., expansion and flow characteristics of initially saturated sodium, potassium, and cesium vapors, 2717
- Goldstein, Charles M., electron flow in low-density argon gas including space-charge and elastic collisions, 14480
- Gomez, Anselmo S. Alvarez, *see* Alvarez-Gomez, Anselmo S.
- Gomez, Gustavo E., relief, 9216
- Gomez, Manuel:  
effect of carbonization conditions, etc., on coke size and strength parameters, 16866  
estimation of low-temperature carbonization product yield, Utah coalfields, 14345
- Gonodactylus, *see* Crustaceans.
- Gonvil, Lafieche, or heirs, relief, 810
- Gonvil, Marie, or heirs, relief, 610
- Gonyaulax catenella, feasibility of mass, outdoor cultivation, 15684
- Gonzalez, Eduardo, relief, 10712
- Gonzalez, Hugo, relief, 13767, 16218, 17519
- Gonzalez, Noel O., relief, 10720
- Good day at Rough Rock, 9400
- Good housekeeping for successful safety program, 12766, 16801
- Good training, good jobs, MDTA Detroit Skills Center, 16500
- Goodbye to birds and bees, 10932
- Goode, R. J., metallurgical characteristics of high strength structural materials, 5363
- Gooding, W. T., jr., feasibility study of chemical sealing of soils, 17849
- Goodrich, B.F. Co., wage chronology, 1939-66, Akron plant, 8301
- Goodson, Kenneth W., ground effects on 4-propeller tilt-wing configuration over fixed and moving ground plane, 11504
- Goodwin, Morgan E. Panama Canal review, 3674
- Goodwin, Robert C.:  
addresses, etc.—  
Jan. 9-10, 1967, 6204  
June 28, 1967, 12474  
Sept. 25, 1967, 16515
- Goodyear, Hugo V., paper, Feb. 6-10, 1967, 5593
- Goodykoontz, Jack H.:  
frequency response of forced-flow single-tube boiler with inserts, 18022  
heat transfer coefficients and static pressures for condensation of high-velocity steam, 9911  
local heat-transfer and pressure distributions for freon-113 condensing in downward flow in vertical tube, 11510
- Gooseberries, *see* Chinese gooseberries.
- Gorbics, S. G., emission spectra of various thermoluminescent materials, 1552
- Gordon, Colin G., influence of upstream flow discontinuities on acoustic power radiated by model air jet, 6714
- Gordon, Tavia, three views of hypertension and heart disease, 8658
- Gorgas Memorial Hospital:  
annual report, 4480  
audit report, 4480
- Goring, Sylvia M.:  
FAA statistical handbook of aviation, 4756  
miscellaneous statistics, general aviation flight plan, etc., 7952

# INDEX 1967

- Gor'kiy Medical Institute, USSR fallings noted, 4936
- Goshen Valley, geology and bauxite deposits, 9561
- Gosling, Arthur W., patterns of subsurface flow in Bloomington-Colton area, Upper Saota Ana Valley, Calif. 1118
- Gosselin, Dean H., relief, 338
- Gott, Garland B.:  
distribution of gold, tellurium, silver, and mercury in—  
Cripple Creek district, Colo., 9571  
Ely mining district, White Pine County, Nev., 9564
- Goudy, William H., woodcock research and management, 14068
- Goulding, Phil G., nomination, bearing, 9306
- Government:  
activist approach to Government-business relations (address), 16327  
bookstores, locations in Washington, D.C. area, 5412  
business-Government relations (addresses), 1937, 9010, 16092-93  
census, 1967, preliminary reports, 13361  
census publications, price list, 7056  
chart book on governmental finances and employment, 1881  
city finances, 13399  
civil defense, governmental responsibilities, programmed orientation to civil defense, 13432  
condition of American federalism, historian's view, 4638  
counselor development in American Society, Government-university relations in professional preparation and employment, conference recommendations, 2482  
creative federalism—  
addresses, 2377, 16707  
hearings, 4639, 13864  
creative partnership with business for balanced economy (address), 9012  
economy in Government, 1967, background material, 9042  
English and Government, Federal textbook on citizenship, 14190, 17844  
Federal—  
available services for multiple handicapped (remarks), 15142  
data processing management, hearings, 16328  
domestic programs to assist American people in furthering their social and economic progress, description, 12447  
information resources in U.S., directory, 15458  
minority group employment, 1930  
organization and employees, title, 5, U.S. code, amend—  
law, 17537  
reports, 7706, 15089  
programs, effect on rural America, hearings, 17583  
programs for development of human resources—  
questions and outline for economic analysis, papers, 12189  
replies from Government departments and agencies to questionnaire, compilation, 7590  
print additional copies, report, 12240  
research and development programs—  
decisionmaking process, report, 15001  
financed by, investigation and study, authorization, report, 6075  
role in air pollution control (address), 13072  
self-supporting reinsurance program to protect employees under private pension plans, establish, hearing, 950  
services available to help paper industry promote its products abroad (remarks), 6465  
Federal-State highway management practices and procedures, hearings, 2055
- Government—Continued  
Federal system, improve effectiveness, role of Advisory Commission on Intergovernmental Relations, 13191  
finances, 5887, 13400  
correction notices, 5886, 16030  
governing bodies of Indian groups under Federal supervision, list, 15321  
government and 1967 economy (remarks), 7565  
government finances, GF series, 180, 1881-82, 5886-87, 7492, 10380, 13399-400, 16030-31  
government, universities, and international affairs, crisis in identity, report, 10516  
how government measures unemployment, 15437  
impact of research and development policies upon scientific and technical manpower, report and recommendations, 4650  
interagency motor pool system, potential savings obtainable through increased use, Defense Dept., GAO report, 8137  
interchange of young executives between Government and business (address), 17469  
interlocal governmental cooperation, study of 5 States, 13942  
junior Federal assistant, examination announcement, 13446  
living with Government creatively (address), 10454  
local—  
elective offices, 13361  
finances in selected metropolitan areas, 1882, 16031  
interlocal agreements and contracts handbook, information report, 8801  
manpower and training needs in water pollution control, report, print as Senate document, report, 16362  
rat extermination and control, Federal assistance, reports, 12284, 13676  
local law enforcement, Federal assistance, amend act—  
law, 502  
reports, 635, 929  
local school systems, standard terminology for instruction, 10942  
new patterns of industry-Government partnership in coming decade (address), 4429  
operations, improving, General Accounting Office findings and recommendations, 15294, 16158  
our American Government, what is it? how does it function? 5977  
our Constitution and Government, Federal textbook on citizenship, 12631-632, 14191, 15320  
patent policy—  
annual report, 2240  
hearings, 2127  
processes, public participation, essence of democracy, message from the President, 10523  
publications on, list, 2802  
quality of Government, its machinery, manpower, methods, recommendations to improve, message from the President, 9067  
science, government, and international policy, panel—  
papers, 12315  
proceedings, 9170  
science, government, and public policy, Government-science relationships during 89th Congress, 13716  
scientific and technical communications, progress, 6244  
State and local—  
construction expenditures, 5891-93, 10384, 16033

Government—Continued

State and local—Continued  
 Federal grants, provide periodic congressional review, etc., hearings, 735  
 tax revenue, quarterly summaries, 5894,  
 7495, 10385, 16034  
 State finances, 1966 summary, 10380  
 use of satellite communications, 1967—  
 hearings, 13707  
 report, 15000  
*see also* Intergovernmental relations—  
*also* headings beginning Government.  
 Government buildings, *see* Public buildings.  
 Government contracts:  
 administration, Government property in  
 possession of contractors, guidance,  
 16456  
 Air Force research and development—  
 contracting officers' handbook, 13260  
 laboratory policies and practices for  
 procurement management, pamphlet,  
 13261  
 Air Force systems acquisition, guide for ef-  
 fective change processing, 10222  
 allowance of over-all loss as cost, revoca-  
 tion, 13109  
 Army Materiel Command, contractors  
 guide, 8880  
 barter, for diamonds for stockpile, bal-  
 ance-of-payments aspects, GAO report,  
 15293  
 bidding, etc., costs charged, Defense Dept.  
 and NASA, GAO review, 8143  
 Business Opportunity-Federal Procure-  
 ment Conference, guidelines for pro-  
 gram, 8923  
 code of Federal regulations, 6290, 9478-79  
 construction and architect-engineering  
 contracting services for AEC work,  
 guide, 13350  
 construction, Defense Dept. awards, need  
 for compliance with truth-in-negotia-  
 tions act of 1962, GAO report, 12588  
 contract administration services, Defense  
 Supply Agency manual, 6147, 13915  
 contract file maintenance, closeout, and  
 disposition, regulation supplement, 7846  
 contractor procurement system review,  
 guide, 6139  
 contractor's inspection system, evaluation  
 6154  
 contracts and subcontracts, how obtained  
 by small business, 7110  
 cost information, procedures for reporting,  
 to NASA, 9929  
 cost or pricing data requirements in award  
 of prime contracts and subcontracts, De-  
 fense Dept., GAO report, 4867  
 Davis-Bacon act, applying provisions to  
 Government-leased buildings, hearings,  
 17674  
 Defense Contract Administration Services,  
 traffic management handbook, 10889  
 Defense Contract Audit Agency reviews of  
 contractors' price proposals, GAO re-  
 port, 6385  
 defense materials system program identifi-  
 cation, use in segregating renegotiable  
 and nonrenegotiable subcontracts, 13105  
 delays in payment, how to avoid, guide  
 for contractors, 17698  
 dredging, Engineers Corps policies, etc.,  
 relating to cost estimates, bids, and con-  
 tract awards, GAO review, 14154  
 exemption, contracts with Military Airlift  
 Command, procedure under renegotia-  
 tion act, 11777  
 guide for businessmen doing business with  
 Federal Government, 1104  
 HEW research contracts, establishing in-  
 direct cost rates—  
 guide for educational institutions, 8189  
 guide for hospitals, 12620  
 housing authorized by public contracts,  
 construction reports, 14818

Government contracts—Continued

identical bidding in public procurement,  
 report of Attorney General, 17883  
 interlocal agreements and contracts hand-  
 book, information report, 8801  
 International Development Agency, pro-  
 curement regulations, 17855-856  
 Labor Dept. contract research, guidelines,  
 6591  
 McNamara-O'Hara service contract act—  
 application to contract mail haulers,  
 7227  
 guide, 13177  
 NASA cost plus award for contracting  
 guide, 16888  
 NASA incentive contracting guide, 16927  
 NASA procurement directive, 3591  
 NASA procurement regulation, 3592  
 supplement, 18058  
 National Science Foundation, 8566  
 Navy prime contractors, selling to, 17100  
 negotiated, examination-of-records clause  
 requirement, exempt foreign contractors,  
 report, 4586  
 nuclear materials management, AEC-con-  
 tractor meeting, 13316  
 painting contracts on Federal facilities in  
 Washington area, irregularities in per-  
 formance, hearing, 15033  
 preparing contractor reports for NASA,  
 data presentation, 1443  
 procurement—  
 code of Federal regulations, 6288-89,  
 7983, 9480  
 economic impact, report, 9044  
 invitations, subcontracting leads, etc.,  
 Commerce business dally, 3107  
 small business subcontracting and set-  
 aside programs, report, 4510  
 production manual for Contract Admin-  
 istration Services, 16461  
 quantity estimates prepared for solici-  
 tation of construction bids, GAO review,  
 14152  
 reduction actions by defense contractors,  
 4670  
 regional contracts for repair and main-  
 tenance of selected office machines, sav-  
 ings available through expanded use,  
 General Services Administration, GAO  
 report, 8148  
 renegotiable, voluntary refunds and in-  
 terim prepayments, 13110  
 renegotiation—  
 bulletins, 11777, 13105-110, 15722-723  
 cost allowances and disallowances, 15722  
 letter not to proceed, 13106  
 renegotiation rulings and bulletins—  
 index, 15721  
 table of citations, 15724  
 textile industry, treatment of shorts and  
 seconds in segregation of subcontractors'  
 sales, 15723  
 shipbuilding, price increases, Navy De-  
 partment, GAO review, 2351  
 shipping operations, renegotiation, 13107  
 technical services, policy and practices,  
 hearings, 10843  
 vessel repair, renegotiability, revocation,  
 13108  
 Walsh-Healey public contracts act, guide,  
 14716  
 Government documents, *see* Government  
 publications.  
 Government employees, *see* Government of-  
 ficials and employees.  
 Government employment, *see* Employment.  
 Government indemnity, *see* Indemnity.  
 Government life insurance, *see* Life  
 insurance.  
 Government offices:  
 accounting principles and standards for  
 Federal agencies, 12585  
 accounting systems, submission for GAO  
 approval, hearing, 737



# INDEX 1967

## Government offices—Continued

administrative practices and procedures—  
 authorization, report, 4616  
 delay in administrative proceedings—  
 evaluation charts, 4647  
 questionnaire survey, 2130  
 investigation—  
 expenses, report, 15099  
 report on findings, 9280  
 administrative procedure act, amend,  
 hearings, 13871  
 agencies with disaster assistance respon-  
 sibilities, guide, 7919  
 architect-engineer fees—  
 Government-wide administration of cer-  
 tain statutory and regulatory require-  
 ments, GAO review, 9548  
 statutory and regulatory Government-  
 wide administration requirements,  
 GAO review, 16668  
 concerned with agricultural information  
 services offered, 5282  
 elective, of State and local governments,  
 13361  
 executive, reorganization, study, authori-  
 zation, report, 6076  
 expenditures for social research, 9161  
 feasibility of using U.S.-owned excess for-  
 eign currencies instead of dollars for  
 ocean shipment of military assistance  
 program materiel, GAO report, 4866  
 Federal consumer services, guide, 13064  
 financial statements, submission, Treas.  
 Dept. regs., 17267  
 general Government matters, appropri-  
 ations, 1968, continue—  
 hearings, 17635  
 laws, 13525, 16131, 17547  
 reports, 12276, 13808, 14988, 16267,  
 16282, 16285  
 Government organization manual, 12529  
 governmental resources, foreign affairs re-  
 search, directory, 17221  
 higher education institutions, contracts,  
 grants, and loans, 7755  
 improving service to the public, agency  
 action programs, 14865  
 independent offices appropriations, 1968—  
 hearings, 9145, 15147  
 reports, 10600, 15131  
 information availability, etc., Attorney  
 General's memorandum on public infor-  
 mation section of administrative proce-  
 dure act, 12762  
 inter-agency coordination of planning to  
 take advantage of technological im-  
 provements relating to—  
 agency-Treasury operations, 10119  
 disbursing and banking operations of  
 the Government, 10118  
 interagency training programs, 10426  
 international cooperation programs ad-  
 vancing status of women, reports of  
 U.S. Government agencies, 8793  
 international scientific programs, partici-  
 pation of Federal agencies, report, 6044  
 invasions of privacy, hearings, print addi-  
 tional copies, report, 10592  
 joint financial management improvement  
 program, annual report, 11144  
 manpower, improved management, 12209  
 print as House document, report, 12280  
 meetings with agency officials, hearings,  
 9150  
 motor vehicle fleet management, guide,  
 15809  
 organization and employees, title 5, U.S.  
 Code, amend—  
 law, 17537  
 reports, 7706, 15089  
 organization of Federal executive depart-  
 ments and agencies—  
 chart, 10847  
 committee print, 10848

## Government offices—Continued

policies and procedures, General Account-  
 ing Office guidance manuals, 6374,  
 8128-29, 11142-143  
 records and papers, disposition, reports,  
 705, 7695, 9102, 10553, 10577, 12260,  
 13628, 13649, 13677, 14958, 16241  
 regulatory agencies under jurisdiction of  
 House Interstate and Foreign Commerce  
 Committee, activities, hearings, 13709  
 regulatory and enforcement agencies, ac-  
 tivities relating to small business, re-  
 port, 4513  
 reorganization, *see* in main alphabet, Gov-  
 ernment reorganization plans.  
 research and development funds, equitable  
 distribution among States, hearings,  
 10839  
 summer jobs in Federal agencies, 1928  
 traffic safety role, hearings, appendix,  
 9315  
 transportation, GAO guidance manual,  
 3370  
 youth opportunity campaign, summer  
 1966, training conducted by Federal  
 agencies for non-college groups em-  
 ployed, report, 7550  
*see also* Government supplies.  
 Government officials and employees:  
 absence from duty because of dangerous  
 weather conditions, to be excused with-  
 out loss of pay, amend U.S. Code, hear-  
 ing, 9329  
 acceptance of gifts and decorations from  
 foreign governments, establish basic  
 uniform standards—  
 law, 391  
 Ramseyer rule print, 734  
 administrative leave for hurricanes, etc.,  
 hearing, 748  
 administrative leave to employees repre-  
 senting Government employee organiza-  
 tions, decision of Comptroller General  
 regarding, 17610  
 benefits for service in high-risk situations,  
 report, 10768  
 Bulgaria officials, 1966, directory, 4934  
 career appointment after temporary ser-  
 vice, acquire through noncompetitive  
 examination, amend U.S. Code—  
 hearings, 9329, 10674  
 law, 17550  
 reports, 10746, 13637, 16277  
 compensation, correction of inequities—  
 law, 450  
 report, 915  
 continuing eligibility for disability retire-  
 ment annuities under civil service re-  
 tirement system, GAO report, 1102  
 current workforce data, 1919, 10421  
 detailing field employees into District of  
 Columbia, repeal law prohibiting, law  
 12163  
 dual benefits payment for same disability  
 or death, procedures for preventing,  
 GAO review, 12592  
 employment and payrolls, monthly, 3894  
 examination announcement, Junior Federal  
 assistant, 13446  
 executive inventory, questions and an-  
 swers for executives, 10419  
 Federal Aviation Agency, testimony in  
 legal proceedings, FAA regulations,  
 11004  
 Federal employee facts, 1925, 4398  
 Federal employee's guide housing in  
 Washington, D.C., area, 4906  
 Federal employment—  
 monthly report, 3578  
 statistica bulletin, 3281  
 Federal news clip sheet, 3296  
 Federal personnel, bimonthly statistics,  
 2985  
 Federal system as seen by Federal aid  
 officials, results of questionnaire, print  
 additional copies, reports, 4597, 10585



Government officials and employees—Cont.  
 Federal workforce outlook, 12108  
 fees, salaries, or compensation, jurisdiction of district court over actions to recover, limitation, increase, amend Tucker act, report, 15077  
 financial protection, 1925  
 Foreign Service career, general information, 10098  
 government organization and employees, title 5, U.S. Code, amend—  
 law, 17537  
 reports, 7706, 15089  
 group life insurance—  
 FPM manual supplement, 3302  
 health benefits, retired Federal employees health benefits, annual report, 7540  
 increase coverage—  
 hearings, 6124, 10673  
 reports 13662, 13806  
 veto, 4467, 16155  
 hazardous duty posts salary differential, etc., message from the President, 5993  
 health benefits act, text, 4654  
 health benefits, FPM manual supplement, 3303  
 high-risk situations, improve benefits, report, 9295  
 injured employees, compensation payments, prompt adjustment from total to partial disability rates, Employees Compensation Bureau, GAO report, 4870  
 Interagency training programs—  
 Financial Management and PPBS Training Center, background curriculum, etc., 7547  
 general information, 10426  
 General Management Training Center, purposes, etc., 7548  
 jobs in trades and crafts, equipment operation and repair at journeyman and junior levels, examination announcement, 12102  
 knowledgeable plastics personnel, directory, 2157  
 maintenance and service workers in Washington, D.C., metropolitan area, examination announcements, 4403, 10428  
 amendments, 5925, 7532  
 marginal employee, management analysis of personnel practices, 2242  
 maritime employees, annual and sick leave act of 1951, amend, hearing, 4553  
 medical facilities available to injured in performance of duty under Federal employees' compensation act, 16514  
 meeting with department and agency officials, hearings, 9150  
 minority group employees, 1930  
 number, reduction of employees, Senate amendments, summary, 4568  
 numerical ceiling, remove—  
 law, 17550  
 reports, 10746 13637, 16277  
 overseas, Federal voting assistance act of 1955, amend, report, 13817  
 pay increases, message from the President, 9069  
 payroll deductions, report, 16385  
 personnel and pay systems, introduction, 7546  
 position-classification standards, 3692  
 postal employees—  
 field service, ratio of career substitutes, reduce hearings, 17607  
 instruction and information, 3693  
 privacy, invasions of, hearings, print additional copies, report, 10592  
 protect in enjoyment of constitutional rights and prevent invasion of privacy—  
 hearings, 7822  
 report, 15121  
 reemployment rights for those who perform duty in Armed Forces, 5936

Government officials and employees—Cont.  
 retirement system, benefits and beneficiaries, 11798  
 rights and responsibilities (address), 5039  
 salaries, statutory systems, annual report, appendix, 10692  
 salary act of 1967, hearings, 12310, 17671  
 salary and retirement annuity increases, 4556  
 salary classification laws, compilation, 1980  
 seafaring, additional leave, law, 459  
 social security coverage, transfer of credits, to close gap in protection, amend U.S. Code, hearings, 10672  
 staff retirement by systems, appendix to report, 10692  
 State and local, finances of retirement systems, 7492  
 summer jobs in Federal agencies, 1928  
 training act—  
 implementation, effectiveness, report, 10619  
 include officers and employees of Senate and House, hearing, 16431  
 travel expenses, increase, hearing, 16331  
 unemployment compensation, by industry and State, 3233  
 use of civil service rather than contractor-furnished employees for NASA support services—  
 GAO report, 11158  
 hearing, 16330  
 voluntary payroll allotment for credit union shares, hearing, 13845  
 wage board employees, adjusting pay rates, hearings, 12425, 16432  
 when injured at work, compensation information, 7921, 15219  
 work injury benefits, 13967  
 work stoppages, 14308  
 see also Civil service—Civil service pensions—Postal service—also names of departments, etc., where employed.  
 Government Operations Committee, House:  
 activities, 6037  
 calendar, 3476  
 committee prints, 2048, 4537-42, 6037, 9161, 15029  
 hearings, 735-738, 2047, 2049, 9159-60, 10654, 12301, 13706-707, 15028, 15030-35, 16327-331, 17602-603  
 investigations and studies—  
 authorization, report, 6020  
 expenses, report, 7675  
 recommendations made during 88th Congress, results, 4541  
 reports, 2021, 2034, 9111, 10606, 10615, 13690, 14947, 14986, 14996-998, 15000-1, 17575  
 statutes, compilation, 4538  
 Government Operations Committee, Senate:  
 activities, 89th Congress, report, 6068  
 calendar, 3496  
 committee prints, 2122, 4638, 4641, 6108-9, 9317, 10838, 10848, 13866-867, 16414-415, 17654-655  
 hearings, 955-956, 2117-21, 4639-40, 4642, 6110-12, 9315-16, 10839-846, 10849-850, 12409, 13864-865, 15156-159, 16412-413, 16416  
 investigations and studies—  
 crime and lawlessness within U.S.—  
 authorization, report, 15083  
 interim report on riots, etc., 16375  
 executive reorganization, authorization, report, 6076  
 foreign aid expenditures, authorization, report, 4626  
 intergovernmental relations, authorization, report, 6074  
 national security and international operations, authorization, report, 4609  
 Permanent Subcommittee operations, authorization, report, 6073

- Government Operations Committee, Senate—continued  
 investigations and studies—Continued  
 research and development programs, authorization, report, 6075  
 organization chart of Federal executive departments and agencies, 10847  
 reports, 900, 906, 2089, 2091, 6068, 10731, 10754-755, 10759, 12392, 13793-794, 16375  
 Government organization manual, 12529  
 Government periodicals, *see* Periodicals.  
 Government Printing Office:  
 appropriations, 1968, legislative—  
 hearings, 10633, 12398  
 law, 13537  
 reports, 10617, 13672, 13813  
 how to do business with GPO, guide for contractors, 8186  
 print and deliver to GSA additional copy of certain publications, law, 396  
 style manual, 9577  
 abridged edition, 11193  
 Government Procurement Commission establish, hearings, 10654  
 Government property, *see* Public property.  
 Government publications:  
 additional copy of certain publications for GSA, Public Printer to print, law, 396  
 brush up on your writing, list, 17130  
 classified list, 17131  
 depository libraries, law governing, and list of libraries, 7765  
 exchange, agreement with—  
 Jamaica, 13145  
 Korea, Republic of, 5543  
 International exchange of publications and documents, conventions concerning, report, 9188  
 monthly catalog, 3568  
 nursing in coronary care units, list, 11754  
 price lists—  
 Public Documents Division—  
 PL series, 1564, 2800-4, 5413-19, 7052-58, 8623, 10037-41, 11712-713, 15669-672, 17132-136, 18149-151  
 subscription services, 5414, 10039, 15670, 18150  
 selective bibliography of Government research reports and translations, list, 1933  
 scientific documentation sponsored by NSF, price, list, 6916  
 selected, list (periodical), 3869  
 State publications, monthly checklist, 3569  
*see also* Congressional documents—*also* names of departments, etc., issuing publications—*also* subjects.  
 Government reorganization plans:  
 District of Columbia—  
 hearings, 12301, 15022, 15159  
 message from the President, 12205  
 reports, 13690, 14949  
 enacted 89th Cong. 2d sess., 14036  
 executive, study, authorize, report, 6076  
 Health, Education, and Welfare Department, hearings, 956, 2121, 4642, 6112  
 index, 16416  
 National Zoological Park—  
 hearing, 736  
 report, 2021  
 ship documents surrender, transfer authority to approve—  
 hearings, 9159, 10849  
 message from the President, 7598  
 State Department, hearings, 956, 2121, 4642, 6112  
 index, 16416  
 Tariff Commission—  
 hearings, 9160, 10850  
 message from the President, 9061  
 reports, 9111, 10759  
 Government securities, yields and prices, 3985  
 Government specifications, *see* Government supplies.  
 Government supplies:  
 Federal item identification guides for supply cataloging, supplements, 3283-93  
 Federal item identification guides improvement program procedures manual, 2147  
 Federal manual for supply cataloging—  
 format, content, and preparation of Federal supply catalog publications, 12439  
 FSC classes assigned for integrated management, special procedures, 6140  
 international cataloging, 4669  
 item identification, 16458  
 operating procedures, 17689  
 Federal procurement regulations, FPR amendments, 3310  
 Federal specifications, 1071, 2266, 4793, 6306, 8007, 9497, 11061, 12537, 14049, 15251, 16600, 17763  
 Federal specifications and standards—  
 guide, 4885  
 index, 6335  
 supplements, 3409  
 Federal standards, 1072, 2267-70, 4794-96, 6307-15, 8008, 9498, 11062-65, 16601-604, 17764  
 Federal supply catalog, 2151, 3318-19, 3321, 7855-56  
 Federal supply classification, directory and planning, schedules of class and area assignments, 16474  
 Federal supply classification handbook—  
 alphabetic index, supplements, 3323  
 groups and classes, 975  
 numeric index, 3322  
 Federal supply code for manufacturers—  
 excluding United States and Canada, 2145  
 supplements, 3325  
 United States and Canada—  
 code to name, 2144, 16457  
 supplements, 3326  
 name to code, 976, 17688  
 supplements, 3327  
 Federal test method standards, 9499, 15252, 16605  
 general stores stock catalog, hand tools, supplement, 4797  
 GSA stock catalogs—  
 general supplies, 3385, 16606  
 hand tools, 6334  
 supplements, 11067, 16608  
 standard forms, 16607  
 supplements, 8009, 11066  
 International Development Agency, procurement regulations, 2994, 17855-856  
 NASA procurement directive, 3591  
 NASA procurement regulations, 3592  
 supplement, 18058  
 Navy procurement directives, 3615  
 procurement—  
 economic impact, report, 9044  
 invitations, subcontracting leads, etc., Commerce business dally, 3107  
 small business subcontracting and set-aside programs, report, 4510  
*see also* Military supplies—Surplus property.  
 Governors Commission on Status of Women, statewide meeting held at Des Moines, Iowa, 10143  
 Gowans, K. D., soil survey report of Tehama County, Calif., 14658  
 Gowen, Justin B.:  
 mineral industry of—  
 Austria, 8343  
 Portugal, 11365  
 Spain, 12807  
 United Kingdom, 12808  
 Gowen, Richard J., national workshop on bioengineering research and manpower, proceedings, 15703

GPO, *see* Government Printing Office.

Grabill, L. R., sugar, starch, and carbohydrate, classification definitions, 18123

Grace, Thomas M., boiler instabilities due to feed-system-subcooled region coupling, 9917

Gracey, William:  
cross-pointer-type instrument display in landing with helicopter, 1488  
evaluation of moving-map instrument display in landing approaches with helicopter, 11531

Graders:  
agricultural commodity (fruit, etc.), examination announcement, amdt., 202  
agricultural commodity grader, career, 9356  
agricultural commodity (grain), examination announcement, amdt., 8983  
agricultural commodity (meat), examination announcement, 16063

Gradients (mathematics):  
magnetic fields, use to produce ionic concentration gradients, 9589

Grading of commercial products, dairy plants surveyed and approved, USDA grading service, 6131, 13887  
*see also* names of products.

Graduate students, *see* Students.

Graduate work, *see* Colleges and universities.

Graduates:  
college—  
civilian career opportunities with Army Dept., 8877  
women, 7 years after graduation, resurvey, 7235  
Job Corps, American business is hiring, 2162  
liberal arts, answer to what can I do in Peace Corps, 5374  
predominantly Negro colleges—  
class of 1964, special report, 14625  
directory, 2483  
training grants awarded by National Institute of Mental Health, 7066

Grady, Noel, starting and managing small drycleaning business, 5497

Graford formation, *see* Pennsylvanian period.

Grafting (physiology):  
popular description of chromosome and animal transplant experiment, USSR study, 1307

Graham, H. M., evaluating cotton gins for pink bollworm kill, 10147

Graham, Robert W., convection, etc., in nucleate boiling, 9907

Grain:  
bulk cargoes, rules and regulations, 4420  
Common Market statistics 1955-56 through 1965-66, compilation, 16642  
costs of storing on farm compared with rates paid for such storage, Commodity Credit Corporation, GAO report, 2342  
crop quality, 1966 carlots and trucklots receipts, 9352  
culture, etc., publications, price list, 5417  
feed grains—  
feed statistics, 17333  
growth in demand in EEC, projection to 1970 and 1975 in relation to consumption, 13949  
program 1966, statistical summary, 8818  
program, 1967, general information, 5673, 5675  
foreign agriculture circulars, 3345  
grain-livestock economy of European Economic Community, 1951-63, historical review, 2176  
market news—  
quarterly summary and statistics, 3383  
weekly, 3382

Grain—Continued  
standards act—  
amend hearings, 17584  
amended, and regulations thereunder, 12431  
standards, official, United States, revised page, 964  
stocks—  
farm and off-farm, by States, 1959-65, revised estimates, 7300  
in all positions, quarterly report, 3905  
in deliverable position at Chicago, weekly report, 3906  
storage facilities, sale, law, 12159  
storages, upright 2-fan crossflow ventilation system, 7248  
wheat and feed grain programs, etc. (address), 4090  
world production, consumption, and trade, prospects, 15209

Grain elevators:  
cooperative, inventory control and valuation practices, 15235  
country, locating, designing, and building, 1683

Grain size, grading of abrasive grain for grinding wheels, 11581

Grain sorghum, *see* Sorghum.

Gramineae, *see* Muhlenbergia.

Grammar, *see* Names of foreign languages.

Grammitis, genus in Ecuador, 17049

Grand Calumet River, pollution of interstate waters, progress evaluation meeting, 14053

Grand Canyon National Park, general information, 8556

Grand fir, *see* Fir.

Grand Junction, Colo., mechanical samplers in use, design and descriptions, 15963

Grand Prairie region, Ark., artificial recharge of ground water (series), 1128

Grand River and Valley:  
comprehensive water resources study of basin—  
economic base study, 1024  
information booklets, 7927-28

Grande, E., refraction of sound by jet flow and jet temperature, 14389

Granges, important role in fields of agriculture, law, etc. (address), 4091

Granite City Defense Depot, employees relief, 779

Grano, Charles X.:  
8-day volumetric pollen sampler, 2322  
growing loblolly and shortleaf pine in Midsouth, 8827

Grant, Nicholas J., oxide dispersion strengthened alloys, 17951

Grant, Roy L.:  
combination statistical design for sensitivity testing, 9754  
effect of weather on sound transmission from explosive shots, 9773  
new gap sensitivity methods for explosives, 9791

Grant County, N. Mex.:  
Hurley west quadrangle, geology, 12601  
Santa Rita quadrangle, general geology, 14171  
Steeple Rock mining district, geology and ore deposits, 6390

Grant County, Wis., geology, Potosi quadrangle, 6388

Grants-in-aid:  
Aging Administration—  
research, demonstration, and development grants, 13192  
training grants, 13193  
air pollution control programs, law, 393  
airport projects involving donated land, Federal participation in cost, GAO review, 15300  
airports, Federal aviation regulations, 4759, 14009, 16557  
allied health professions personnel training act of 1966, law, 463

## Grants-in-aid—Continued

anti-crime program, assistance to State and local governments, hearings, 12306  
 Appalachian regional development, supplements—  
   hearings, 13713  
   law, 17548  
   reports, 7788, 14957, 16265  
 awarded by National Institute of Mental Health for graduate and undergraduate training, 7066  
 bilingual education, hearings, 15170, 16321  
 child food service program—  
   amend act, hearings, 9139  
   closing nutrition gap, 15871  
   law, 373  
   report, 663  
 children in need, federally assisted program, Cleveland, etc., study, 4386  
 civil rights compliance officer's manual, 1906  
 clean water, Federal grants, 11069  
 Commercial Fisheries Bureau graduate educational grants, 17774  
 community action program—  
   grantees, directories, 982, 7873, 10906  
   management information reporting by community action agencies, 13939  
 community development district act, rural America, reports, 622, 10748  
 community facilities for mentally retarded, progress report, 14629  
 congressional review, periodic, provide, etc., hearings, 735  
 constitutionality under certain acts, judicial review, report, 10729  
 cropland adjustment program, Greenspan way, general information, 5672  
 demonstration cities and metropolitan development act of 1966—  
   law, 465  
   law, summary, section-by-section analysis, legislative history, and conference report, 725  
   title 1, program guide, 4909  
 dental public health, research, research training, fellowships, 8632  
 disaster relief, status of funds, 7603  
 District of Columbia participation in medical assistance program, report, 13645  
 Economic Development Administration—  
   grants and loans for public works & development facilities, 7869, 13935  
   planning grants for economic development, 13932  
   program for building communities with jobs, 13928  
 economic development districts, 9380  
 education—  
   attracting and qualifying teachers—  
     law, 12176  
     reports, 12275, 13643, 13805  
   construction of television and radio broadcasting facilities, etc.—  
     hearings, 10824, 13710  
     reports, 10756, 14980  
   elementary and secondary—  
     administration of programs, notes and working papers, 10865-867  
     amendments of 1966, law, 462  
     amendments of 1967, hearings, 7742, 9153, 12419, 17664  
     amendments of 1967, reports, 9118, 10557  
   PACE projects to advance creativity in education, supplementary centers and services, etc., 10940-941  
   school year 1965-66, highlights, 15218  
 ESEA, title 1, 1968 application forms, instructions, 16503  
 ESEA, title 2, guidelines, 16513  
 handicapped children—  
   guidelines for State plan programs, 10933  
   preparation of professional personnel, 7897

## Grants-in-aid—Continued

education—continued  
   handicapped, Education Office programs, 4716  
   programs, who and where to apply, etc., 7907  
   States report under elementary and secondary education act of 1965, 7890  
   students in vocational, college, and graduate programs, 2177  
   title 3 programs under NDEA, notes, etc., 17668  
 Education Office financial assistance programs for State and local governments, etc., 2183  
 educational and cultural exchange program, opportunities, 14678  
 educational financial aids for dependents of Army personnel, 17383  
 elementary and secondary education act—  
   PACE, projects to advance creativity in education, supplementary centers and services, etc., 17723  
   title 3, stepping up with PACE, 7915  
 environmental engineering and food protection, research grants, 5463  
 Farmers Home Administration, community centers, etc., hearings, 15145  
 Federal assistance for educational planning, acquiring and developing sites and constructing facilities, guide, 10931  
 Federal beautification and open-space land programs, questions and answers, 4902  
 Federal financial assistance for projects in aging (series), 13192-194  
 Federal funds for day care projects, 8792, 10140  
 Federal incentive grants for municipal waste treatment, report, 8010  
 Federal money for education, 1967 report, 7908  
 Federal programs—  
   aiding State education agencies, 13961  
   withdrawal of cash from Treasury for advances, 7207  
 Federal support for academic science and other educational activities in universities and colleges, 13011, 17057  
 Federal system as seen by Federal aid officials, results of questionnaire, print additional copies, reports, 4597, 10585  
 geographic distribution of Federal funds for research and development, 13012  
 gold mining subsidies—  
   hearings, 12302  
   report, 16288  
 graduate educational grants in aquatic science, 1967-68 academic year, 1077  
 health, allied professions, educational improvements, 2807  
 health planning and services—  
   hearing, 12305, 17670  
   law, 461  
   reports, 16230, 16247  
 health research facilities program, annual report, PHS, 524 12207  
 health services, coordinated funding by HEW and OEO, 13938  
 health services project grants manual, changes, 10052  
 HEW research grants, establishing indirect cost rates—  
   guide for educational institutions, 8189  
   guide for hospitals, 12620  
 higher education act of 1965—  
   administration of programs, 1966, notes and working papers, 12422  
   institutional assistance grant program, spring 1967, 16502  
   title 3, strengthening developing institutions, 2185  
 higher education amendments of 1966, law 464  
 higher education amendments of 1967, hearings, 15026

Grants-in-aid—Continued

higher education, graduate academic facilities program, preparation and submission of proposals, manual, 17718  
 highway beautification, 1968 authorizations—  
   hearings, 15174  
   reports, 15126, 16272  
 highway construction act of 1966—  
   hearings, errata, 4656  
   report, 638  
 highway program—  
   Federal aid in construction of roads, laws, compilation, 1988  
   research and development studies using Federal-aid funds, 2845  
   toll facilities relationship—  
     hearings print additional copies, report, 643  
     report, 14989  
 highway relocation assistance study, 16340  
 highway safety report, 646  
 highway statistics, 13101  
 historic sites preservation—  
   law, 384  
   report, 673  
 hospitals, etc., in D.C., project grants for construction and modernization, hearing, 16405  
 housing, urban renewal project characteristics, 15726  
 improvement of State and local personnel administration, etc., hearings, 12409  
 information system to aid in participation in programs study, hearings, 4639  
 intergovernmental cooperation in management of programs, improving, hearings, 4639, 13864  
 international education law, 412  
 juvenile delinquency prevention, etc.—  
   hearings, 16324  
   message from the President, 5999  
   report, 16249  
 law enforcement and criminal justice assistance act of 1967, reports, 13670, 13685  
 law enforcement assistance act, report, 11292  
 law enforcement, Federal assistance, amend act—  
   law, 502  
   reports 635, 929  
 library services and construction act, extend and amend—  
   law, general information, 1135  
   report, 16298  
 manpower research institutional program, progress report, 16795  
 manpower research sponsored by Labor Dept., guidelines for grants, 6591  
 medical assistance under title 19 of social security act, limitations, report, 697  
 mental health amendments of 1967—  
   hearings, 9163  
   law, 12173  
   reports, 9136, 10599, 12366  
 mental health, research grant awards, 1948-63, listing by State, etc., 13083  
 mental health, support programs of NIMH, 18174  
 mental health training grants program, 1965, statistical sourcebook, 7076  
 mental retardation facilities, extend, etc., laws—  
   hearings, 10659, 17666  
   reports, 14971, 16246  
 military assistance program addresses, MILSTRIP, 4679  
   change, 6152  
   supplement, 16472  
 national defense student loans, college work-study program, and list of participating institutions, 1001  
 National Heart Institute, congenital heart disease, research review, 15677

Grants-in-aid—Continued

National Institute of Child Health and Human Development, training support, 13194  
 National Institute of Mental Health training grants for support of mental health personnel, current status, 2839  
 National Institutes of Health, guide, 17143  
 National Science Foundation, 8566  
 neighborhood facilities grant program for enriching community life, 2380  
 nurse training improvement, project grants, guidelines, 18164  
 nursing homes, open every door, Nation's goal for compliance with title 6 of 1964 civil rights act, 13183  
 outdoor recreation, manual, 3665, 7026-28, 13037-40  
 overseas projects in education, research or study, 1014  
 partnership for health, information and policies on grants—  
   for comprehensive areawide health planning, 17156  
   to States for comprehensive health planning, 15702  
   to States for public health services, 13086  
 periodic congressional reassessment of Federal grants to State and local governments, 16414  
 population conference, hearings, 956, 2121, 4642, 6112  
 index, 16416  
 Public Health Service—  
   construction grant programs, labor standards provisions, 8637  
   funds, 1966—  
     construction of facilities, 1755  
     health services, formula, project, regional medical planning grants, etc., 8644  
   research funds, 7085  
   summary tables and graphic highlights, 15706  
   grants to Washington State, GAO review, 14160  
   mental health research, 14630  
   mental health training, 14631  
   research grants, awarded, 1966, index, 8647  
   research projects in accident prevention, references to publications, 8645  
   research projects, policy statement, 11756  
   training grants, traineeships, fellowships, etc., 7086  
   training projects, policy statement, 13091  
 public works grant rates in qualified areas under Public works and economic development act, 4685, 15202  
 radiation workers, recordkeeping, hearings, 1974  
 rat control and extermination, hearings, 10641  
 rat extermination act of 1967, reports, 12284, 13676  
 regional medical programs in heart disease, cancer, stroke, guidelines, 13076  
 research grant program in NIH, administration, report, 17575  
 research grant program of NIMH, 1965, descriptive data sourcebook, 15707  
 research method for scientific information retrieval system, 7064  
 resource and conservation development projects, cost sharing, report, 16368  
 revenue sharing and its alternatives, what future for fiscal federalism?—  
   committee print, 13546  
   hearings, 16149  
 science and technology, degree profile and Federal contributions to universities, etc., 14560

# INDEX 1967

## Grants-in-aid—Continued

- science, mathematics, and foreign language instruction in public schools, etc., guidelines, 13956
- scientific manpower, utilization, hearings, 4652, 10869
- sea grant colleges—
  - law, 402
  - reports, 632, 679
- solid waste disposal, summaries of research and training grants, 10063
- State technical services program, amend act to include Guam—
  - law, 475
  - report, 891
- State vocational rehabilitation services—
  - hearings, 15172, 17600
  - law, 16144
  - reports, 14972, 16366
  - 6 steps forward, 17186
- urban mass transportation, increase, reports, 620, 628
- urban mass transportation program, emergency provisions, temporary extension—
  - law, 13522
  - reports, 12388, 13634
- urban planning assistance, Federal grants available, summary, 2381
- veterans' medical care and treatment, etc., agreement with Philippines, 14685
- veterinary medical education facilities construction and student loan program, 423
- vocational education amendments, hearings, 4532
- vocational rehabilitation, new programs, progress, report, 5589
- water and sewer facilities grant program, HUD consumer bulletin, 17838
- water pollution control—
  - law, 12156
  - text, 6340
- water pollution control research and training grants—
  - awards, 1966 list, 2274
  - publications and reports, 1965 index, 11071
- water systems, waste disposal systems, financial assistance to small towns and rural groups in Oklahoma, questions and answers, 7945
- welfare funds to Alabama, cutoff, hearings, 6096
- Grapes, production, use, value, 1965-66, by States, 14695
- Graphic methods, agricultural economics, graphic analysis, applications, 4099
- Graphic presentation, 17691
- Graphite:
  - absorption of carbon dioxide at 0° C, 5351
  - artificial, chemical impurity data, 18040
  - optical properties, 16849
  - oxidation of JT graphite composites, static, subsonic, and supersonic test, 18053
  - surface in high-temperature airflow, effects of nitrogen injection into boundary layer, 12964
  - welding graphite materials, USSR study, 15395
- Graphitic oxides, reverse osmosis membranes containing, 6444
- Graphs, *see* Charts.
- Grapple, self-actuating, automatically engages and releases loads from overhead cranes, 5150
- Grapsas, Athanasia, *see* Argere, Athanasia.
- Grass fires, *see* Forest fires.
- Grasses:
  - culture, etc., publications, price list, 5417
  - grass, rancher's crop, 5636
  - grass range, establishing in southwest Missouri Ozarks, 14092

## Grasses—Continued

- grass seed production and harvest in Great Plains, 7271
- native sandhills, Valentine National Wildlife Refuge, Nebraska, descriptions, etc., 16621
- range, Arizona, vegetative key, 11141
- see also* Bluestem—Bunchgrass—Muhlenbergia.
- Grasshoppers, control, 15848
- Grasslands, research, statistical methods, abstract bibliography, 10185
- Gratings and networks of ribbons as radio reflectors, 16902
- Gratuities:
  - reporting your tips for tax purposes, 2408
  - special information about social security for people who receive cash tips, 17204
- Gravel:
  - grit, test of types in alleviating lead poisoning in mallards, 17786
  - minerals yearbook chapter, 5133
- Graveson, Robert T., point source detection by scintillation survey meter, 1787
- Gravimeters, results of USSR investigation on board ship, 8274
- Gravimetry:
  - effects of petroleum and natural-gas reservoirs on mass properties of sedimentary rocks, 12608
  - report, 14518
  - see also* Thermogravimetry.
- Gravity:
  - effects on mercury droplet behavior, photographic study, 1509
  - evaluation of semi-active gradient system—
    - appendices, 2598
    - technical summary, 2597
  - fluid boiling in discrete bubble region, effects of gravity level, 15562
  - geologic interpretation of gravity and aeromagnetic maps of Tintic Valley area, 8164
  - GEOS—A gravity gradient satellite (Explorer XXIX), stabilization system analysis and performance, 17940
  - liquid hydrogen in spherical tankage, normal gravity self pressurization, 18019
  - loaded rock, stresses and displacements surrounding open pit, 14356
  - reduced fields, experiments to investigate particulate materials, 18000
  - resonant librating orbits, use in studying earth's gravity, 14476
  - self-locomotive performance of lunar explorers based on experimental reduced-gravity studies, 11501
  - surveys of parts of Canyonlands National Park, 2368
- Gray, Brian E., direction, for commanders and public information officers, 3209
- Gray, James L., soil survey of St. Francis County, Ark., 2875
- Gray County, Tex., soil survey report, 8697
- Gray Line Sightseeing Tours, Inc., motor carrier accident, 17917
- Grays Harbor, basin, Lincoln Creek formation, 12603
- Grazing:
  - associations, increasing farm and ranch income through membership, 1717
  - cattle grazing on ponderosa pine-bunchgrass range in Colorado, effects, 14764
  - comandra, grazing, and comandra blister rust, 14127
  - permits, cancellation, fix compensation, 4576
  - range and related grazing lands, national handbook, 15745
  - Taylor grazing act as amended and supplemented, 15457
  - see also* Pasture lands—Public lands.
- Grease, world production and trade, 4817
- see also* lubricants.



Great Bahama Bank, myodocopid ostracod  
Euphilomedes multichelata, 8543

Great Britain:  
air transport services, agreement, 7152  
availability of certain Indian Ocean  
islands for defense purposes, agreement,  
11846  
background notes, 1622  
Bahamas long range proving ground,  
agreement, 17241  
colored minorities and present policies,  
9747  
double taxation, convention, agreement,  
2921  
east coast of England, Sailing directions,  
change, 11094  
educational commission and financing of  
exchange programs agreement, 13149  
establishing business in United Kingdom,  
17476  
European and British Commonwealth se-  
ries, 1626, 10099  
hops industry, 8047  
indemnification for losses arising from  
ammunition shipments, agreement, 7184  
lights and fog signals, list, 5334, 11644  
maritime matters, visit by N.S. Savannah  
to Honk Kong, agreement, 15795  
mineral industry, minerals yearbook chap-  
ter, 12808  
monopolies exploit Persian Gulf, 1188  
tariff concessions, staging, amending agree-  
ment, 15803  
tracking station on Antigua, agreement,  
8749  
tracking station on Mahé Island, Seychel-  
les, agreement, 11847  
tracking stations, agreements, 2911, 5536,  
8750  
travel to United States, market survey,  
5582  
treaties concluded with United States,  
continued application to—  
Botswana, agreement, 11839  
Lesotho, agreement, 8742  
weather stations, cooperative meteorologi-  
cal program in Cayman Islands, agree-  
ment, 7192  
west coasts of England and Wales, sail-  
ing directions, change, 8570

Great days ahead (remarks), 1696

Great Lakes:  
aquatic sciences in area, 2241  
atmospheric water vapor aloft over basin,  
total distribution, 16833  
basin, consent to compact, hearings, 731  
fisheries—  
annual summary, 9502  
convention with Canada, amending, re-  
port, 6064  
Indiana of area, general information, 2390  
light list and other marine aids, 9003  
modification of nearshore currents by  
coastal structures, 8326  
navigation, rules of road, 221  
notice to mariners, 3642, 9006  
pilot, survey, 8325  
supplements, 11335, 12777, 14309,  
16834-836  
pilotage, 1966, statistical report, 12139  
pilotage services, agreement with Canada,  
14689  
rules concerning sailing vessels, etc., law,  
468  
small craft, gale and whole gale warning  
facilities charts, 14723-724  
snow depth probability charts and tables,  
12776  
water pollution, control, etc., in region,  
hearing, 738  
water pollution control project, Lake On-  
tario program, 9501

Great Lakes Pilotage Administration, sta-  
tistical report, 12139

Great Lakes Regional Commission, *see* Up-  
per Great Lakes Regional Commission.

Great Lakes States:  
balsam fir, botanical and commercial  
range, 8069  
northern region, economic survey, 7680  
pulpwood, rising prices stimulate largest  
Lake States harvest, 14101  
tamarack, botanical and commercial range,  
8070  
veneer log production shows increase,  
14096  
veneer yields from Lake States, quaking  
aspen, 1095

Great leap backward, Soviet view of China's  
economic problems, 16780

Great Meadows National Wildlife Refuge,  
general information, 17775

Great Plains:  
dryland farms, organizing and operating,  
regional research project GP-2, sum-  
mary, 7883  
grass seed production and harvest, 7271  
northern—  
growing fruit for home use, 7272  
shelterbelts, 1689  
northwestern Plains States, iron and steel  
scrap, processing and marketing, 16855  
southern, woody vines, selecting, planting,  
etc., 1688

Great Salt Lake:  
brines, desulfation processing, preliminary  
studies, 6688  
relicted lands, convey lands lying below  
meander line in Utah, hearing, 4643

Great Salt Lake National Monument:  
establishment—  
hearings, 2123, 7815, 12412  
report, 9273

Great Sand Dunes National Monument, gen-  
eral information, 9959

Great Smoky Mountains National Park:  
brook trout, technical paper, 17787  
general information, 9960

Great Society:  
Americans can aspire to Great Society here  
and abroad (address), 26  
creative federalism, concept (address), 25

Great South Bay, eastern section, pollution  
of navigable waters, conference proceed-  
ings, 6339

Great White Heron National Wildlife Refuge,  
birds of Florida Keys national wildlife  
refuges, list, 17780

Greatest storm on earth, hurricane, 17738

Greece:  
background notes, 10091  
canned deciduous fruit industry, 17792  
Educational Foundation and financing of  
exchange programs, agreement, law, 470  
establishing business in, 9018  
loan of 1929, settlement acceptance, law,  
470  
maritime matters, liability during private  
operation of N.S. Savannah, agreement,  
11856  
mineral industry, minerals yearbook chap-  
ter, 15468  
refunding of indebtedness due, agreement,  
8735  
selling in Greece, 4440  
war or peace in Middle East, study mission  
report, 10837

Greece, N.Y., population, special census of  
town, 16020

Greek language, basic course, 14677

Green, Barbara, basic data on economic of  
Jamaica, 13461

Green, L., use of thin-layer chromatography  
(TLC) for identification of aircraft engine  
oil components, 11674

Green, Lisle R., picloram herbicide for kill-  
ing chaparral species, preliminary rating,  
8085

Green, M. S., critical phenomena, 1521

Green Bay, Wis.: area wage survey, 5061  
water pollution control, comprehensive  
plan for area, 14050



# INDEX 1967

- Green coffee inventories, imports, and roastings, 3384
- Green River formation:  
Colorado, shale oil specific gravity, stratigraphic and geographic variation, 2587
- Utah and Colorado, geology and fuel resources, 12610
- Green River, Howard Hanson Dam, outlet works and stilling basin, hydraulic model investigation, 2201
- Greenbaum, Leon J., Jr., compressed air, diving and submarine medicine, 14314
- Greenbrier County, W. Va., coal, carbonizing properties, 2576
- Greene, Frank M., new near-zone electric field-strength meter, 5291
- Greene, John M., variational principle for stationary magnethydrodynamic equilibria, 12008
- Greene, Wallace M., testimony, hearings, 16394
- Greenland:  
approach roads, 15932
- cores, particulate content, 17374
- east, sailing directions, change, 14571
- firm, artificial radioactivity reference horizons, 4197
- ice core from, stratigraphic analysis, 13290
- lights and fog signals, list, 5331, 9972, 14578
- mineral industry, minerals yearbook chapter, 8350
- north, Tuto ramp, ice surface movement, 11983
- tide tables, 12119
- Greensite, Arthur L., analysis and design of space vehicle flight control systems, 12871-873, 14383-384, 15497-501, 15503
- Greenspan, Martin, engineering and instrumentation, journal of research, 3460
- Greenspan, questions and answers, 11926
- Greenspan way to more space for parks, recreation, wildlife, 5672
- Greenville, S.C., area wage survey, 14288
- Greenville quadrangle, Maine, geology and petrology, 16684
- Greenwood, J. E. G. W., geology of Arabian Peninsula, 8173
- Greenwood, Lawrence R., outgassing rates of solid rocket fuels in vacuum, 5262
- Greenwood, R. C.:  
evaluation of thermal neutron capture gamma ray techniques for nondestructive analysis of reactor burnable poisons, 1790
- prompt gamma rays from radiative capture of thermal neutrons, 5776
- Greer County, Okla., soil survey report, 10088
- Grelen, Harold E., common plants of longleaf pine bluestem range, 2334
- GREMEX, new management training concept, 9852
- Grenada County, Miss., soil survey report, 11805
- Grice, George D., bathypelagic calanoid copepods of western Indian Ocean, 8548
- Grid systems, see Maps and charts.
- Griffin, Russell E., dielectric constants and dissipation factors for 6 rock types between 20 and 100 megahertz, 9765
- Griffith, J. R., filament-winding plastics, syntheses, properties, and uses of m-aminobenzyl amine (MABA), 9989
- Griggs, Roy L., geology and ore deposits of Steeple Rock mining district, Grant County, N. Mex., 6390
- Grimes, Annie K., annotated bibliography on climate of Republic of Vietnam, 16539
- Grinders, bench and floor stand grinder, how to inspect chart, 9686
- Grinding machines, see Grinders.
- Grinding wheels, see Abrasives.
- Grisez, T. J., pruning open-grown black cherry, 17803
- Grit, see Gravel.
- Grit blasting nozzle fabricated from mild tool steel, etc., 6762
- Grits, corn, good choice for thrifty family, food value, use, recipes, 9340
- Groceries:  
price-marking in warehouses, use of adhesive labels, 10155
- wholesale business, fair labor standards act, application, 11896
- wholesale institutional orders, determining costs of servicing, 4120
- Grocery stores, see Stores.
- Grocery trade, see Stores.
- Groins (hydraulic engineering), see Jetties.
- Groom, Phyllis, prices in poor neighborhoods, 14305
- Groom mining district, Nev., Cambrian and Precambrian rocks, 14169
- Groppa, Mrs. Matteo, relief, 10532, 13517
- Grose, L. T., coal resources of southwestern Utah, 8341
- Gross, Arthur L., calcium, phosphorus, and nitrogen mobilization resulting from conditions of inactivity in *Macaca irus* monkeys, 5707
- Gross, D., field burnout tests of apartment dwelling units, 18075
- Gross, Ronald, United States and UNESCO, challenges for the future, 10105
- Gross national product:  
calendar year 1965, current market prices, 6469
- growth rates and trend data by region and country, 8228
- statistical tables, 1829
- Grosser, Bernard I., geographic and astronomical distance responses by rated officers, 4174
- Grossing, Bernardo F., internal magnetization of seamounts and its computer calculation, 12612
- Ground, see Land.
- Ground effect, 4-propeller tilt-wing configuration over fixed and moving ground plane, 11504
- Ground effect machines, free-flight characteristics and handling qualities of GEM III, 9880
- Ground instructors:  
examination guide, basic-advanced, 4813, 17789
- Federal aviation regulations, 11001
- Ground rods, rod and rod section, Federal item identification guide, 10895
- Ground water, see Water.
- Grounds, see Public property.
- Group behavior, groups in disaster (paper), 10049
- Group insurance, see Life insurance.
- Group practice facilities program, information guide and instruction handbook, 14024
- Grouping by ability, see Ability grouping in education.
- Grouse, damage on true firs, 1090
- Grouting, foundation, field technique and inspection, engineering and design manual, 2211
- Grove, Richard, museums come alive, 9402
- Grover, Horace J., fatigue of aircraft structures, 17062
- Growing boxwoods, 5632
- Growing dates in United States, 29
- Growing glaucous, 14742
- Growing grain sorghum, 4117
- Growing raspberries, 4105
- Growing table beets, 4113
- Growth:  
children, research programs, studies in progress, 8967
- gibberellin-induced, a dormant sweetgum, 8093
- growth retardation under 3 species of oaks, observations, 11130
- height, mahogany seedlings, St. Croix, V.I., 12575

Growth—Continued

- loblolly pine's diameter growth and foliar nitrogen in fertilized soil, 8094
- lodgepole pine, low stand density speeds tree growth, 11117
- paper and yellow birch in simulated strip cuttings, 4849
- periodic cubic growth in natural loblolly stands near Crossett, Ark., 2324
- pinus in Hawaii, 4854
- queensland maple seedlings in Hawaii, growth accelerated after first year, 8090
- thinning and fertilizing increase growth in western white pine, 6367
- trees, accuracy of mean-growth estimates made with dial gage dendrometers, 8079
- Groaz, G., artificial radioactivity reference horizons in Greenland fir, 4197
- Grubb, Lynn S., interfacial behavior following termination of outflow in weightlessness, 8501
- Gruening, Ernest:
  - disposal of United States military installations and supplies in France, 6109
  - United States foreign aid in action, 2122
- Gryzinski, Michal, theory, cross section for metastable state of atomic hydrogen, 9874
- GSA, *see* General Services Administration.
- Guadalupe Mountains National Park, establishment, law, 386
- Guam:
  - census of agriculture, 1964, State and county statistics, 19398
  - county business patterns, 13385
  - economic development, promote, report, 15134
  - Foraminifera, smaller, 1119
  - general information, 9584
  - geology and hydrology of Guam, Mariana Islands (series), 1119
  - Governor, annual report, 9585
  - Governor, etc., popular election, provide, amend organic act—
    - hearings, 10852
    - report, 10750
  - include in State technical services act of 1965—
    - law, 475
    - report, 691
  - nautical chart catalog, 7558
  - nurses in public health, number, educational preparation, etc., 17155
  - plant regulatory officials, 5618
  - social security tax guide for employers, 2402
- Guaranties and sureties:
  - companies acceptable as sureties on Federal bonds, list, 15811
- Informational media guaranty program, financing—
  - hearing, 10834
  - report, 10767
- investments, agreement with—
  - British Gulana, 2887
  - Cameroon, 11868
  - Ghana, 10104
  - India, 2909
  - Lesotho, 11865
  - Malta, 8748
  - Paraguay, 7187
  - Philippines, 5544
  - Zambia, 2933
- loan guaranties, payment by ICC, appropriation, 10699
- specific risk investment guaranty handbook, 4925
- Guard duty, Army field manual, 10262
- Guard rails, *see* Roads and highways.
- Guardrails (road), *see* Roads and highways.
- Guards (persons):
  - examination announcement, 4401
- Guarino, Joseph L., magpie reduction in an urban roost, 16635

Guatemala:

- background notes, 5521
- mineral industry, minerals yearbook chapter, 14331
- south coastal, early cultures and human ecology, 9954
- Guereca, Ross A.:
  - concerning physical parameters for use in absolute gas viscosimeter, 11378
  - steady-state laminar flow boundary conditions for stainless steel coiled-capillary viscosimeter, 14350
  - thermophysical properties of selected gases below 300° K, 6635
- Guernsey, John, teens sound off, 17726
- Guernsey cattle, *see* Cattle.
- Guerrilla warfare, counterguerrilla operations, Army field manual, 8881
- Guest, Stanley, far-field acoustic environmental predictions for launch of Saturn V, etc., 16981
- Guidance:
  - bibliography, Air Force Academy Library, 5689
  - career guidance, report of Subcommittee on Career guidance of Committee on Specialized Personnel, Labor Dept., 11293
  - national defense education act of 1958, institutes, program, 6189
  - publications of State Departments of Education, guide, 6185
  - report of President's Commission on Status of Women and report of Committee on Education, excerpts, 7236
  - State Dept. of Education personnel directory, 6178
  - theory, papers, compilation, 12881
  - see also* Counselors—Vocational guidance.
- Guidance systems:
  - automatic guidance of automobiles, prospects, USSR study, 16762
  - electromagnetic study, 16896
  - guidance computer memories, present and future state of the art, 18049
  - helicopters flying over mountains at night, tests, 8089
  - space, test with star/horizon simulator, 11447
  - spacecraft, 6730
- Guide books, Commerce Department, agency of business, promotes economic growth, 5963
- Guide for educational institutions, establishing indirect cost rates for HEW research contracts, etc., 8189
- Guide for hospitals, establishing indirect cost rates, for HEW research contracts, etc., 12620
- Guide specification for 1000-gallon aircraft fire and rescue truck, 10246
- Guide to Federal consumer services, 13064
- Guide to natural beauty, 11936
- Guide to record retention requirements, 7990
- Guide to specifications and standards of Federal Government, 4885
- Guided missiles, *see* Missiles.
- Guidelines—
  - Business Opportunity-Federal Procurement Conference program, 8923
  - evaluation of contractor accounting systems, 6705
  - employment testing procedures, 2227
- Guido, Pedro L., relief, 9079
- Gulbert, Edward A.:
  - remarks—
    - Nov. 1, 1966, 236
    - Nov. 18, 1966, 1951
- Gulford County, N.C., population, special census, 10370
- Guillou, R. B.:
  - aerial radiometric survey, 7426
  - Orlando area, ARMS 2, 1780
  - Parr area, ARMS-2, 1781
- Guinand, Jerome B., oil and gas lease, reinstate, report, 10740

# INDEX 1967

- Gulnard, Norman W., NRL terrain clutter study phase 1, 14591
- Guinea:
- labor conditions, 5075
  - mineral industry, minerals yearbook chapter, 8351
  - U.S. travelers, you can assist U.S. balance of payments, 11887
- Gulf, see name of gulf, or place where located.
- Gulf Coast:
- foods, eastern basin, Ogeechee River to Pearl River, 2374
  - frequency distribution of rainfall in tropical storms (paper), 5593
  - light list, Little River, S.C., to Rio Grande, Tex., and Antilles, 12123
  - nautical chart catalog, 4415
  - shrimp data, 3386
  - transportation lines, 13984
  - see also Gulf States.
- Gulf County Canal:
- modification, engineer report—departmental edition, 2209
  - document edition, 1938
- Gulf Intracoastal Waterway, see Intracoastal Waterway.
- Gulf of Aden, see Aden, Gulf of.
- Gulf of Mexico, see Mexico, Gulf of.
- Gulf of Suez, see Suez, Gulf of.
- Gulf Series in subsurface of northern Florida and southern Georgia, 16692
- Gulf States:
- fisheries, annual summary, 8018
  - strawberry culture, 1685
- Gulf Stream, photogrammetric research work, 5941
- Gulick, J. W.:
- remarks—
  - Feb. 10, 1967, 6626
  - Feb. 23, 1967, 6627
  - May 5, 1967, 9751
  - July 17, 1967, 12787
  - Oct. 12, 1967, 17907
  - Oct. 25, 1967, 17908
- Gullander, W. P., address, Nov. 1, 1966, 8616A
- Gullies, Harrison County, Iowa, 1722
- Gum naval stores, see Naval stores.
- Gunderson, Robert W., transformation to phase-variable canonical form, 12923
- Gunner's mates, G 1 & C, Navy training course, 8577
- Guns, see Explosive guns—Firearms.
- Gunter, Edgar J., jr., dynamic stability of rotor-bearing systems, 1439
- Gurainick, Lillian, selected family characteristics and health measures reported in health interview survey, 7097
- Gursky, H., celestial X-ray sources, 8428
- Gust loads, see Load (mechanics).
- Gustafson, Paul R., 1,4 cyclohexanedia (methylamine), regenerative carbon dioxide absorbent, 8589
- Gut Dam, claims, agreement with Canada, 8725
- Gutierrez, Orlando A., steady-state performance of multitude, centrally finned, potassium condensing radiator, 18052
- Guy, R. W., effect of orifice size and heat-transfer rate on measured static pressures in low-density arc-heated wind tunnel, 6876
- Guyana:
- agricultural production, indices, 4700
  - background notes, 1615
  - British Guiana, investment guaranties, agreement, 2887
  - foreign trade regulations, 230
  - mineral industry, minerals yearbook chapter, 14330
  - Peace Corps volunteers, agreement, 15787
  - special study mission, report, 10568
- Gwinnett County, Ga., soil survey report, 15748
- Gylden method, see Mathematics.
- Gymnastics, see Exercise.
- Gymnodinium breve, west coast of Florida, 1964-65, distribution and occurrence, 8039
- Gymnosporangium clavariiforme in witchhambrooms of Juniperus communis, 8809
- Gypsum, mineral industry survey, quarterly, 3387
- Gypsy moths, bacteria of living and dead larvae of Porthetria dispar, 8675
- ## H
- H.E.W., see Health, Education and Welfare Department.
- Haar, Charles M., remarks, Sept. 21, 1967, 16714
- Habeas corpus:
- District of Columbia jail inmates, authorize transfer to other institutions notwithstanding pendency of petition, reports, 878, 12393
  - State custody, revise procedures, law, 425
- Hackett, Gerald A., executive calendar, Senate, 3503
- Haddon, William, jr.:
- addresses, etc.—
  - Nov. 16, 1966, 1940
  - Nov. 29, 1966, 1964
  - Dec. 1, 1966, 1963
  - Dec. 11, 1966, 4423
  - Feb. 16, 1967, 5959
  - nomination, hearings, 6095, 15153
- Hadley, H. H., herbicides for forest plantations, 12571
- Hadrons, production reactions, consequences of unitary symmetry, tests, 5759
- Hady, Thomas F., taxation of farmland on rural-urban fringe, 16486
- Haematochiton, see Beetles.
- Hafnium:
- carbon phase diagram, investigation, 14340
  - determination of zirconium in, 9985
- Hagan, Robert L., paper, Aug. 14-15, 1966, 4304
- Hagen, Hermann, caddis flies, types of species described, 14542
- Hagermann, Madeline G., education directory, 1966-67, pt. 1, State governments, 15211
- Hague Conference on Private International Law:
- convention on service abroad of judicial and extrajudicial documents in civil or commercial matters—
  - message from the President, 6060
  - report, 7774
- Hahn, G. T., plastic constraint ahead of sharp crack under plane-strain conditions, 7108
- Haldar, Walter:
- foreign trade regulations of—
  - Dominican Republic, 4442
  - Haiti, 13457
- Haight, Gardiner M., JAG Journal, 3452
- Hail, processes, work of Caucasus anti-hail expedition, 1965, results, USSR study, 12681
- Hail insurance, crop-hail insurance 1965, volume, cost, indemnities, 9392
- Hain, G., auto-diagrammer, 2682
- Haines Road, winter maintenance, agreement with Canada, 8728, 17230
- Hair, Dwight, demand and price situation for forest products, 5660
- Haiti, foreign trade regulations, 13457
- Haji-Morad, Ali, see Morad, Ali Haji.
- Hale, Elwyn C., oil lease, reinstate, 10704
- Hale, Henry B., seasonal changes among endocrine-metabolic indices of men residing in subtropical climate, 7358
- Hale, Peter B., basic data on economy of Turkey, 5952
- Hale, William N., water requirements and uses in Montana mineral industries, 2539
- Haleakala National Park, general information, 8537

Haliotidae, *see* Gastropods.  
 Hall, Dale O., broadcast seeding ponderosa pine on Challenge Experimental Forest, progress report, 16660  
 Hall, Delight, catalogue of Alice Pike Barney memorial collection, 2747  
 Hall, Edward T., manpower potential in our ethnic groups, 17885  
 Hall, Jay V., jr., wave tests of revetment using machine-produced interlocking blocks, 16519  
 Hall, Leo P., aerodynamic characteristics of V-STOL model with lift and lift-cruise fans, 14484  
 Hall coefficient of tantalum carbide as function of carbon content, etc., 18018  
 Hall County, Tex., soil survey report, 14655  
 Hall of medicine, 2153  
 Hallucinogen:  
     bibliography—  
         hallucinogenic drugs, 14072  
         hallucinogens, 12560  
     fact sheet, 12557  
 Halogens:  
     primary cells utilize halogen-organic charge transfer complex, 6837  
     synthesis of highly halogenated monomers and polymers, 9855  
 Halver, John E., trout hepatoma research conference papers, 11090  
 Hamburger, Richard, remarks, Nov. 10, 1966, 1819  
 Hamill, Bruce, lighting for outdoor recreation, 10331  
 Hamill, Thomas D., effect of subcooling and radiation on film-boiling heat transfer from flat plate, 14453  
 Hamilton, Alexander, Freedoms Foundation's new building dedicated in his name (remarks), 2954  
 Hamilton, James E., F-4C flight simulator flashblindness experiment, 1738  
 Hamilton, Thomas E., production, prices, employment, and trade in Pacific Northwest forest industries, 3774  
 Hamilton, Warren, nature of batholiths, 6403  
 Hamilton, Wayne L., measurement of natural particulate fallout onto high polar ice sheets, 17374  
 Hammershead sharks, *see* Sharks.  
 Hammond, George R., study of left moving thunderstorm of Apr. 23, 1964, 10965  
 Hampshire, Gifford D., FDA papers, 4814  
 Hampton, Robert E., nomination, reappointment, hearing, 7824  
 Hampton, Va., area wage survey, 16816  
 Hampton National Historic Site, general information, 13007  
 Hancock County, Miss., Mississippi Test Facility, ground-water supplies, development, 8183  
 Hand, Cadet, new species of burrowing aconiate anemone, 6952  
 Hand cleaners, *see* Soap.  
 Hand tools:  
     Defense Dept. stocks, transfer to GSA, GAO review, 9546  
     Federal item identification guides for supply cataloging, supplements, 3286  
     GSA stock catalog, 6334  
     supplements, 4797, 11067, 16608  
 Hand trucks, safe practices, 9721  
 Handbooks, *see* names of departments, etc., issuing handbooks—*also* subjects.  
 Handcar Project, *see* Project Handcar (plow-share program).  
 Handicraft, *see* Handicraft.  
 Handicapped:  
     children—  
         education—  
             preparation of professional personnel—  
                 grant program, 7897  
                 manual, 16508  
             State plan programs, guidelines, 10933

Handicapped—Continued  
     children—continued  
         feeding the child with a handicap, 13416  
         military medical benefits act of 1966—  
             law, 365  
             report, 664  
         economics of handicapped (address), 6179  
         education—  
             architectural and attitudinal barriers (remarks), 13068  
             improve programs—  
                 hearings, 7742, 9153, 12419, 17664  
                 reports, 9118, 10557  
             education and training adequacy, hearings, 2046, 7741  
         Education Office programs, 4716  
         employment—  
             assistance, Federal and State programs, directory, 15664  
             barriers, challenge to handicapped, 1968  
             report theme contest, 11th and 12th grade students, announcement, 15667  
             role of public relations (remarks), 11702  
             unparalleled opportunity (address), 8616A  
         housing, minimum property standards, 9582  
         multiple handicapped, available Federal services (remarks), 18142  
         outdoor recreation planning for the handicapped, 17102  
         performance, story of the handicapped, 3680  
         physically, accessibility of public buildings, insure—  
             hearing, 15173  
             report, 15124  
         physically impaired workers, work performance, 14612  
         placement—  
             inspection findings, summary, 10432  
             review, coordinator's scoreboard, 8990  
         President's Committee on Employment of the Handicapped—  
             action, program guide, 17121  
             awards and recognition program, 1355  
             general information, 18147  
             programs, Federal role, hearings, 6110  
             programs for the handicapped (periodical), 15316  
         severely disabled, rehabilitation problems (remarks), 11700  
         sheltered workshop clients, fair labor standards act, technical report, 18252  
         spouses and children, of active members of Armed Forces, use of private facilities, report, 14941  
 Handicraft, encouraging American handicrafts, what role in economic development? 2160  
 Handling equipment:  
     carriage system remotely moves drawer over extended distance, 6703  
     Federal item identification guides for supply cataloging, supplements, 3283, 3293  
     fluid handling, classification definitions, 18126  
     hydrostatic force used to handle outsized, heavy objects, 12897  
     petroleum, Army technical manual, 5746  
 Hangover effect of acobarbital on simulated pilotage performance, 7364  
 Hanish, S., tables of spheroidal wave functions, etc., 10002, 10010, 17087  
 Hanley, H. J. M., viscosity and thermal conductivity coefficients of dilute neon, krypton, and xenon, 11589  
 Hanna, Paul R., phoneme-grapheme correspondences as cues to spelling improvement, 1010  
 Hansen, Henry A., waterfowl status report, 6357  
 Hansen, Wallace R., Alaska earthquake, Mar. 27, 1964, field investigations and reconstruction effort, 8169

# INDEX 1967

- Hanson, Mary F., trends in income of families and persons in United States, 16035
- Harbor workers, *see* Longshoremen.
- Harbors:
- facilities, Navy design manual, changes, 2765
  - flood control and multi-purpose projects, public works authorizations—
    - law, 493
    - report, 698
  - flood control, improvements, compilation—
    - departmental edition, 1025
    - document edition, 516
  - flood control, omnibus bill, 1966, hearings, 751
  - see also* names of harbors, or places where located.
- Hard, J. S., identification of destructive Alaska forest insects, 14085
- Hard-of-hearing, *see* Deaf.
- Hard woods, *see* Hardwoods.
- Hardboard, *see* Pulpboard.
- Hardeeville, S.C., motor carrier accident, 16874
- Hardin, Charles H., food and fiber in Nation's politics, 17123
- Hardin, Dale W., nomination, hearing, 15153
- Harding, Katherine, basic properties of matrix algebra, 15464
- Harding, Paul L., evaluating quality of United States-grown citrus fruits in European markets, 5616
- Harding, Richard S., biochemical procedures, 7414
- Harding, Samuel T., Parkfield, Calif., earthquake of June 27, 1966, preliminary seismological report, 1934
- Hardinger, Christine C., basic data on economy of Republic of South Africa, 1944
- Hardness:
- Knoop anisotropy, stereographic representation, 18051
  - pendulum sclerometer for surface studies, 11381
- Hardware:
- aircraft, Army aviation maintenance engineering manual, 8892
  - builders', Army technical manual, changes, 107, 10271
  - data retrieval system provides unlimited design information, 11484
  - Federal Item Identification guides for supply cataloging, supplements, 3291
  - retailing, bibliography, 7113
  - space, microbiological examination, NASA standard procedures, 15521
- Hardware stores, *see* Stores.
- Hardwoods:
- Appalachian—
    - epicormic branching on 8 species, 8078
    - lumber production, Kentucky and Ohio, costs & returns, 4850
    - use for pallets, laboratory evaluation, 16661
  - controlling off-site hardwoods with 2,4-D amine concentrate, 12583
  - Hawaii, multivariate equations developed for volume prediction, 8084
  - northern—
    - deer browsing after clearcutting, effect on height, etc., 8109
    - designing efficient logging systems using equipment production capabilities and costs, 2330
    - impact of insects, 2304
    - stump sprouting, 8111
  - plywood, current industrial reports, 5862, 15997
  - sawmills, chip manufacture, cost analysis, 14139
- Hardy, Edward P., jr., Health and Safety Laboratory fallout program, quarterly summary reports, 1785-86, 5774, 10299, 13324
- Hargreaves, John J., man in oxygen-hellum atmosphere, 91
- Harkin, John M., lignin production and detection in wood, 8060
- Harlan, James H., exploration of space, supplement, 10227
- Harley, John H., Health and Safety Laboratory, manual of standard procedures, 13336
- Harlee, John:
- addresses, etc.—
    - Dec. 12, 1966, 2246
    - Apr. 18, 1967, 7971
    - Apr. 19, 1967, 7972
    - May 2, 1967, 9456
    - Sept. 19, 1967, 16577
    - Sept. 22, 1967, 16578
- Harmonic functions, Vinti's accurate reference satellite orbit with inclusion of 3d zonal harmonic, differential corrections, 15564
- Harmstonia, *see* Flies.
- Harness, Vernon L., Brazilian cotton, trends and prospects, 9525
- Haroules, George G.:
- absolute temperature measurement at microwave frequencies, 17016
  - radiometric boresighting by sequential logging, 18055
- Harpers Ferry National Historical Park, general information, 11614
- Harper's Ferry, United States Marine Corps, historical reference pamphlet, 12784
- Harrach, Robert J., natural shift of resonance frequency, 2745
- Harre, Edwin A., fertilizer trends, 17261
- Harrer, Clarence M., Wyoming iron-ore deposits, 5104
- Harrington, J. F., sources of fertilizer minerals in South America, preliminary study, 1110
- Harrington, T. A., shelterwood method for regenerating sand pine, 9539
- Harris, A. S., effects of slash burning on conifer regeneration in southeast Alaska, 4834
- Harris, C. Cleland, and Associates, Spanish, programmatic course, instructor's manual, 13142
- Harris, Charles D., tension shell and blunted 100° conical shapes for unmanned entry vehicles, 1504
- Harris, Cyril M., sound absorption in air versus humidity and temperature, 6707
- Harris, Edmond S., price wars in city milk markets, 2168
- Harris, George L., area handbook for Thailand, 5734
- Harris, Henry M., hot rolling of oxide-glass compositions, 12820
- Harris, J. Donald, masked DL for pitch memory, 11348
- Harris, James W., relief, 15066, 16226, 17524
- Harris, Julius E., aerodynamic characteristics of spherically blunted cones, 1486, 14488
- Harris, Marshall, your farm rent determination problem, 17311
- Harris, Robert D., analysis and design of space vehicle flight control systems, 15502
- Harrison, Edwin F., use of Jupiter gravity turns for tailoring trajectories to Saturna with consideration of launch opportunities, 2692
- Harrison, Gordon F., Senate manual containing standing rules, orders, laws, and resolutions affecting business of Senate, etc., 10691
- Harrison, James K., thermal characteristics of storage vessel on moon, 5259
- Harrison, R. W.:
- compatibility of biaxially stressed D-43 alloy with refluxing potassium, 11422

- Harrison, R. W.—Continued  
stabilization of carbon and nitrogen in stainless steel and its effect on mass transfer in stainless steel-Cb-12r-potassium system, 12864
- Harrison, Ark.:  
Crooked Creek and tributaries in vicinity, engineer report—  
departmental edition, 10955  
document edition, 10700
- Harrison County, Iowa, physiographic history and soils, entrenched stream systems, and gullies, 1722
- Harrold, L. L., evaluation of agricultural hydrology by monolith lysimeters, 5687
- Harrold, T. W., thunderstorm motions, heights, and circulations, 6221
- Harry Diamond Laboratories, timers for ordnance symposium, proceedings, 104
- Hart, Clint E., frequency response and transfer functions of nuclear rocket engine system, 11526
- Hart, Elizabeth F., I & N reporter, 3405
- Hart, Gerald E., Hartlobe airborne dual antenna system for IFF, 5587
- Hartley, Jack L., thermography of human dentition, 17357
- Hartley, James, and family, relief, 15067
- Hartman, Bryce O.:  
aircrew morale, 4184  
hangover effect of secobarbital on simulated pilotage performance, 7364  
MOL, predicting 4-hour levels of psychomotor performance from initial half hour, 17355
- Hartman, Joan E., directory of United States standardization activities, 15589
- Hartshorn, Joseph H., geology of Taunton quadrangle, Bristol and Plymouth Counties, Mass., 9560
- Hartzog, George B., jr., heritage to discover, 2184
- Harvesters, *see* Harvesting machinery.
- Harvesting:  
cotton research plots, quick-change sacking attachment, 13198  
potatoes and sweetpotatoes, dates, by seasons, in principal areas, 13211  
potatoes, cost factors, evaluation, 15873
- Harvesting machinery, bulk handling spring crop potatoes from harvester to packing line, methods and costs, 35
- Harvey, Gale A.:  
description of 4 fast slitless spectrographs, 18014  
photometry of spectrograms of 3 artificial meteors, 9902  
slitless absolute spectral photometry, 5247
- Harvey, George M., growth rate and survival probability of blister rust cankers on sugar pine branches, 14103
- Harvey, John M., air transport of California strawberries, factors affecting market quality, 1704
- Harvey, Lullie V., natural gas processing plants, 8372
- Harvey, Thomas W.:  
addresses, etc.—  
May 17, 1967, 10905  
Sept. 15, 1967, 16479  
Oct. 12, 1967, 16477
- Harwell, Robert A., relief, 7624
- Hasbani, Youssef S., relief, 12326
- Hasenberg, Werner, reform of French social security system, 17199
- Hastelloy, *see* Nickel.
- Hatch, Charles R., effect of partial cutting in overmature lodgepole pine, 14090
- Hatch, Howard G., jr., dynamic simulation of lunar module docking with Apollo command module in lunar orbit, 11520
- Hatcher, Norman M., survey of attitude sensors for spacecraft, 12882
- Hatcheries, *see* Chickens—Fish and fishes—Poultry—Turkeys.
- Hatry, Harry P., criteria for evaluation in planning State and local programs, 16411
- Hatton, T. T., maintaining market quality of fresh lychees during storage and transportation, 37
- Hatzisavvas, Christina, relief, 13615, 13783, 14899
- Havana, Cuba, Latin American Solidarity Organization, conference, Senate Judiciary Committee staff study, 13872
- Haverhill, Mass., area wage survey, 15440
- Haviland, Virginia:  
children's books, 1966, list, 6622  
children's literature, guide to reference sources, 5085  
serving those who serve children, 2532
- Hawaii:  
air carrier routes, map, 4372  
air transportation of all classes of mail, hearing, 9166  
Alouette I observations recorded, 6736  
blackbutt eucalyptus, physical and mechanical properties, 2328  
census of agriculture, 1964, State and county statistics, 14839  
census of manufactures, 1963, area statistics, 154  
census of mineral industries, 1963, area statistics, 4284  
climatological data, 3096  
coast pilot, supplement, 5944  
copepod crustaceans parasitic on teleost fishes, 11603  
county business patterns, 171, 12046  
hardwoods, multivariate equations developed for volume prediction, 8084  
Hawaii Development Irradiator, dedication (remarks), 12025  
housing 1965-70, forecast of requirements, 16664  
lights and fog signals, list, changes, 1537, 7004, 11642, 18099  
metallurgical testing of Hawaiian ferruginous bauxites, report, 11374  
mineral industry, minerals yearbook chapter, 2553  
nautical chart catalog, 7558  
Norfolk-island-pine grown, physical and mechanical properties, 8105  
nursing home care for veterans, eliminate certain requirements, report, 6007  
paintability of 2 Hawaii-grown woods, 4543  
pines, phenology and growth habits, 4854  
plantation timber—  
Hawaii Island, 4858  
Kauai Island, 16665  
precipitation data, hourly, 3401  
Queensland maple seedlings, growth accelerated after first year, 8090  
radio station NPM, antipodal region, airborne field measurements, results, 5345  
rain forest, herbicides for site preparation, 4842  
rainfall and streamflow from small tree-covered and fern-covered and burned watersheds, 8115  
storm warning facilities charts, 11902  
tide tables, high and low water predictions, 7555  
tropical agriculture in economy (address), 4093  
volcano observatory, summary, 3391  
zooplankton, abundance and distribution, 14064
- Hawaii Volcanoes National Park, general information, 2756, 11615
- Hawaiian Islands, *see* Hawaii.
- Hawaiian Volcano Observatory, summary, 3391
- Hawkins, Gerald S., 5,000- and 10,000-year star catalogs, 8683
- Hawkins, Murphy E., salt domes in Texas, Louisiana, Mississippi, Alabama, and offshore tidelands, surveys, 2541



- Hawkins, William C., aerospace maintenance safety, 2992
- Hawley, C. C., geology and ore deposits of Lawson-Dumont-Fall River district, Clear Creek County, Colo., 16683
- Haworth, D. R., analytical investigations of laminar separations using Crocco-Lees mixing parameter method, 9806
- Hawthorne, J. R., metallurgical variables as possible factors controlling radiation sensitivity of structural steels, 5357
- Hay, Chu Chai-ho, *see* Chu Chai-Ho Hay.
- Hay, John, Camp, *see* John Hay, Camp.
- Hay:
  - baled, sampling tool to extract cores, 13201
  - feed statistics, 17333
  - stocks, farm and off-farm, by States, 1959-65, revised estimates, 7300
  - trefoil production for pasture and hay, 14741
- Hayes, Jack:
  - outdoors USA, yearbook of agriculture—departmental edition, 17325
  - document edition, 17566
- Hayes, Una, developmental approach to case-finding, with special reference to cerebral palsy, mental retardation, and mental disorders, 10403
- Haynes, William P., evaluation of battery-powered vehicles, 9770
- Hayward, J. T., roller system to facilitate covering boxcars with tarpaulins for fumigation, 13202
- Hazardous occupations, *see* Occupations.
- Hazardous substances:
  - child protection under Federal hazardous substances act, 12552
  - Federal hazardous substances act, text, as amended, 12563
  - harmful to health, Czechoslovakian study, 14265
  - labeling act, amend—
    - hearings, 2112
    - law, 466
  - packaging and handling for military aircraft transportation, Air Force manual, change, 13255
  - transportation of dangerous articles, etc., Federal aviation regulations, 10998-999
- Hazel, Joe T.:
  - merited grade and skill level ratings of airman jobs, 4172
  - merited grade versus merited pay rankings of airman jobs, 7339
  - policy equation to predict Criterion Board ratings, officer grade requirements project, 15891
- Hazel, Joseph E., Hemicytheridae and Trachyleberididae (Ostracoda) off north-eastern North America, 8174
- Hazen, Scott W., Jr.:
  - analyzing mine and mineral-deposit sample and assay data, 14322
  - assigning area of influence for assay obtained in mine sampling, 12815
  - correlation between assay values and unequal sample interval values, 2571
- Head:
  - face protection, occupational safety aid, 9700
  - head-controlled TV system produces high-quality remote image, 16887
  - restrant for automotive vehicles, Federal standard, 6330
- Head nurses, *see* Nurses and nursing.
- Head Start Project, *see* Project Head Start.
- Headaches, hope through research, 2818
- Headley, Larry C., status of porous ionizers for contact ionization of cesium, 11540
- Headstones, *see* Tombstones.
- Heady, Earl O., food needs and U.S. agriculture in 1980, analysis of land, labor and capital requirements, etc., 17122
- Healing art:
  - practice act, District of Columbia, amend to exempt from licensing requirements physicians employed by District of Columbia—
    - law, 17560
    - reports, 10559, 16384
- Health:
  - advancement of knowledge for Nation's health, research programs of NIH, 14616
  - allied professions and services, education for, 14622
  - allied professions personnel training act of 1966, law, 463
  - Army examination of youths for military service, analysis of results, 8900
  - auxiliary training, instructor's guide, 2814
  - benefits program for retired members, and dependents of members of uniformed services—
    - law, 365
    - report, 664
  - better care for people with low incomes, new title 19, medical assistance program, brief summary, 2228
  - Bucharest Hygiene Institute, 40-year record, 12723
  - career opportunities, openings for psychiatric aid, laundry manager, etc., 15693
  - characteristics by geographic region, metropolitan areas, and other places of reference, 10068
  - children in day care, with focus on health, 7513
  - cigarette smoking and health characteristics, statistics, 10067
  - community action for health, 2167
  - community health planning, role of health and welfare councils, 2832
  - community infant formula services, minimum sanitary standards, 15698
  - community planning, bibliography, 16540
  - comprehensive health planning (paper), 10045
  - comprehensive health planning and public health services amendment, law, 461
  - Czechoslovak Ministry of Health directives on control of pharmaceuticals, 12685
  - emergency activities, appropriations, 1968—
    - hearings, 9145
    - reports, 10600, 15131
  - emergency care, family guide, reference guide for students of medical self help training course, 4378
  - emergency service, definition of program content for Bureau of Health Operations, 11732
  - environmental aspects of hospitals, infection control, 8635
  - environmental health series—
    - air pollution, 1572, 5428, 7062-63
    - Arctic health, 14623
    - radiological health, 7064-65, 8630, 10047, 11725, 15681-682, 17140
    - urban and industrial health, 15683-684
  - examination surveys of persons aged 6-17 years, study of achievement test used, 13098
  - facilities, District of Columbia, project grants for construction and modernization, hearing, 16405
  - Federal surplus personal property, how to acquire, 12621
  - health and obesity, source book of current information, 1585
  - health economics, program for research, 10050
  - health economics, series, 10050, 15685
  - health, education, and welfare indicators (periodical), 3394
  - health information leaflets and pamphlets, list, 18171



## Health—Continued

health information series, 1574-76, 2815-21, 5433-34, 7068-69, 11730-731, 14626-628, 15686-687, 17145-148, 18165-167

health interview survey—  
current estimates, 11763  
family characteristics and health measures reported, 7097

health mobilization series, 1577, 2822-25, 11732-733, 13081, 15688, 18168

health resources statistics, 10051

home health services, planning, summary of development, following Medicare and Medicaid, 10037

home services in your community, 11735

homemaker-home health aide in personal care, training, 15714

hygiene with principles of public health organization, USSR study, 1192

Indian and Alaska native health program, nurses, examination announcement, 10436

Indians—  
Interior Dept. policies, etc., briefing, hearings, 10655

Public Health Service program—  
nurses, examination announcement, discontinuance, 10423  
report to the 1st Americans, 11761  
role of dentist, 8627

industrial, publications, price list, 17135

information and policies on grants—  
for comprehensive areawide health planning, 17156  
to States for—  
comprehensive health planning, 15702  
public health services, 13086

insurance, social security rulings, 2872

late somatic effects of radiation of body in man, 10308

library services of National Clearinghouse for Smoking and Health, 11740

livable environment, strategy for, 12622

MDTA and your health manpower needs, 15434

medical training in Veterans Administration, major contribution to Nation's resources, 8782

National Interagency Conference on Smoking and Health highlights, 7077

neighborhood centers, general information, questions and answers, 7877

new programs for persons and families of low and moderate income, 8193

opportunities for health science libraries, 6941

partnership for health, 13086, 15702, 17156

partnership for health amendments of 1967—  
hearings, 12305, 17670  
reports, 16230, 16247

partnership for planning, extension of remarks, etc., 7080

poisons and other harmful substances, Czechoslovakian study, 14265

Polish National Republic public health organization problems, 15425

portraits in community health (series), 5456, 13089

positive approaches (address), 1893

professions—  
allied educational improvement grants, 2807  
education, publications, bibliography, 5459  
scholarship program, 13082  
student loan program, 5435, 17149

programs, proposals, message from the President, 7602

protection, target of Bureau of Disease Prevention and Environmental Control, 11734, 17150

## Health—Continued

public—  
code of Federal regulations, 7989

computers, electrocardiography, report of recent studies, 11723

conference on records and statistics, proceedings, 11th national meeting, 18185

engineering abstracts, 3781

grant programs in dental research, research training, fellowships, 8632

laws, amend—  
hearings, 9163  
law, 12173  
reports, 9136, 10599, 12366

laws, compilation, 4547

personnel in local health units, PHS analysis of information, 10059

public health bibliography series, 1589-90, 7083, 8642-43, 11753-754, 13090, 15705

public health monograph series, 7084

public health reports, 3782

residency training in preventive medicine and dental public health, 7090

space flight feeding systems, public health implications, 15898

State salary ranges, 4898, 11194

traineeships for professional personnel, 15713

USSR—  
greater economy urged, 6570  
medical men and economists discuss economics of, 2462  
problems in next 5-year plan, 4966  
public health service, defects cited, 1263  
Soviet public health (USSR periodical), translations, 3889

Public Health Service grants, etc.—  
funds, 1966—  
construction of research facilities, 11755  
formula, project grants and regional medical planning grants, etc., 8644  
research, 7085  
summary tables and graphic highlights, 15706  
training projects, policy statement, 13091  
Washington State, financial administration, GAO review, 14160

radiological data and reports (periodical), 3805

radiological health research, July 1965-Dec. 1966, summary report, 13092

radiological health technician training, programs, 13093

radiological health training courses, 13085

recent translations, selected list, 3809

reference facts, 16706

research facilities construction program, Surgeon General's report, 524, 12207

research grants by NIH, administration, report, 17575

research highlights, NIH work, 10061

Rumania—  
children's health protection problems in Socialist Republic, 15361  
prophylaxis in health protection, 1160  
situation, 1240

safety of large volume parenteral solutions, national symposium proceedings, 15275

securitag, in our urban future, 7091

service personnel, education—  
clarify responsibility of VA, law, 489  
lack of implementation by VA, hearings, 16344

services—  
and surveys, research relating to children, 8967  
coordinated funding, in projects receiving or eligible for assistance under programs of HEW and OEO, 13938  
costs and delivery to older Americans, hearings, 17633

# INDEX 1967

## Health—Continued

services—continued  
 elderly people, Dexter Manor story, 5456  
 Memphis-Shelby County, Tenn., civil rights report, 14851  
 project grants manual, changes, 10052  
 Project Head Start, guide for directors and health personnel, 12450  
 ship repairing regulations, 9728  
 shipbreaking regulations, 9729  
 shipbuilding regulations, 9730  
 smoking and health—  
 bibliography, 15705  
 directory of on-going research, 11743  
 smoking, health consequences, Public Health Service review, 17144  
 statistics—  
 analytical studies, 5466, 7097, 8659, 17167  
 data evaluation and methods research, 2842, 7096, 8057-58, 11762, 13098  
 data from national health survey, 7098, 8660-61, 10067-69, 11763-764, 13099, 14637-639, 18168-170, 18188-189  
 data from National Vital Statistics System, 5471, 8662, 15715, 17171-172  
 travel information—  
 Asia, etc., Australia and New Zealand, 13078  
 Europe, 13079  
 Mexico, Central and South America, and Caribbean, 13080  
 voluntary health and welfare agencies, fundraising within Federal service, manual, 3539, 4399  
 workers in Peace Corps, 5377  
*see also* Medical care—Mental health.  
 Health Agencies, State, Advisory Committee on HEW Relationships with, *see* Advisory Committee on HEW Relationships with State Health Agencies.  
 Health and Safety Laboratory:  
 AEC fallout program, quarterly summary reports, 1785-86, 5774-75, 10299-300, 15324-325  
 AEC, standard procedures manual, 1795, 13336  
 Health boards and departments:  
 directory—  
 local units, 1569  
 State and territorial health authorities, 15680  
 nursing expenditures in small health agencies, costing procedures, 5437  
 Health centers:  
 health services research centers, purposes & organization, 17151  
 home health agencies, providers of services under health insurance for the aged, directory, 11793  
 neighborhood, demonstration program, general information, 9383  
 Health Council, National Advisory, *see* National Advisory Health Council.  
 Health Department, D.C., employees, remaining on duty during inaugural period, provide meals, report, 7686  
 Health, Education, and Welfare Department:  
 activities in family planning, fertility, sterility, and population dynamics, 1136  
 annual report, 8190  
 appropriations, 1967, law, 491  
 appropriations, 1968—  
 amendments, 10517  
 hearings, 7734, 10631, 13841  
 reports, 10560, 10612, 12252, 15082, 16287  
 career opportunities, auditing, 8195  
 field directory, 12619  
 health services, coordinated funding, in projects receiving or eligible for assistance under programs of HEW and OEO, 13938  
 mental retardation activities, 6414  
 mental retardation publications, 4896  
 press releases, 3734

Health, Education, and Welfare Department—Continued  
 relationships with State health agencies, advisory committee report, 6413  
 reorganization, hearings, 956, 2121, 4642, 6112  
 index, 16416  
 research grants, etc., establishing indirect cost rates, guide for—  
 educational institutions, 8189  
 hospitals, 12620  
 strengthening community services in low-income neighborhoods, concerted services with HUD, task force report, 17840  
 Surplus Property Utilization Office, regional representatives, directory, 8188  
 Health, education, and welfare indicators, 3394  
 Health, Education, and Welfare Services and Housing Joint Task Force, report, 17840  
 Health insurance:  
 aged persons—  
 extend deadline for enrollment—  
 law, 16142  
 report, 16264  
 extended care facility, manual, 5504, 7120  
 home health agency manual, revision, 8687, 18206  
 social security amendments of 1967—  
 hearings, 15154, 16409  
 reports, 14953, 14964  
 summary, 15053  
 social security handbook, 1606  
*see also* below, medicare.  
 Blue Cross and Blue Shield plans, 1965, enrollment and finances, 1607  
 credit, for student loans, increase maximum amount allowable in D.C., report, 882  
 disabled persons, provide, hearings, 7763, 10684  
 drug prescription programs, digest, 8628  
 enrollment under social security, July 1, 1966, number of persons by State and county, 10083  
 Federal employees—  
 and retired Federal employees health benefits, annual report, 7540  
 Federal personnel manual, supplement, 3303  
 health benefits act, text, 4654  
 health insurance for the aged, HIM (series), 5502-4, 7119-20, 8687, 10084, 18206  
 health insurance statistics, current medicare survey report (series), 17197  
 household workers and their employers, statistics, 2871  
 independent plans, 2870, 17201  
 medicare—  
 conditions for coverage of services of independent laboratories, 5502  
 facts, 18209  
 home health benefits, payments to agency, 7128  
 hospital manual, 10084  
 how it helps when entering hospital, 5513  
 initial operating data, 5515  
 medical insurance claims, methods of payment, 7127  
 people 65 or over, 5511  
 provider costs, reimbursement, principles, 5503  
 services by hospital-based physicians, reimbursement, 7119  
 social security benefits for people 65 and over, information, 10085  
 negotiated health and insurance plans, 1962-66, changes, 2521  
 plans under collective bargaining, digest, 5058  
 social security rulings, 3881

Health insurance—Continued  
*see also* Old-age, survivors, disability, and health insurance.

Health officers:  
 local, statistics and characteristics, 10053  
 Soviet officials in USSR, 1247

Health Operations Bureau, emergency health service, program content, definition, 11732

Health physics, *see* Physics.

Health Physics Society, journal, KWIC index, 15694

Health records, *see* Medical records.

Health resorts, Polish, treatment of diabetics, 17865

Health service workers, health service industry, technology and manpower, 1965-75, report, 11297

Health Statistics, National Center, *see* National Center for Health Statistics.

Hearing:  
 and speech disorders, causes, etc., 18178  
 characteristics of persons with impaired hearing, 8660  
 flying personnel, survey, 17356  
 hearing levels of adults by race, region, etc., U.S., 17168  
 signal presentation rate, auditory threshold, and group vigilance, 11349

Hearing examiners, examination announcement, 12114, 16066

Hearings:  
 adjudication cases before Government agencies, modified procedure, hearings, 13871  
 congressional committees, index, 13472  
 Federal Reserve System Board of Governors rules of practice, 15250

Hearn, George H.:  
 remarks—  
 Feb. 1, 1967, 6258  
 Feb. 24, 1967, 6260  
 Mar. 31, 1967, 7970  
 May 20, 1967, 11016

Hearn, Jackson B., foreign trade regulations of Turkey, 12136

Heart:  
 artificial parts, fact sheet, 11729  
 atrial systole effect on right ventricular stroke output in man, 11956  
 coronary circulation, normal and pathologic, 11999  
 heart research news (periodical), 1395  
 miniature swine, cardiac output, etc., 4186  
 multifocal premature contractions, ECG finding of grave significance, 15897  
 rate response of anesthetized and unanesthetized dogs to noise and near-vacuum decompression, 4180  
 resting man during early exposure to high altitude, cardiopulmonary responses, 7413

Heart diseases:  
 aortic insufficiency in flying personnel, 17348  
 characteristics of clients rehabilitated, 7221  
 congenital, review of research grants supported by National Heart Institute, 15677  
 Coronary Drug project, 15678  
 electron-histochemical investigations of experimental myocardial ischemia, USSR study, 14219  
 hypertension and heart disease, views, 8658  
 National Congestive Heart Failure Seminar, report and recommendations, 8646  
 nursing in coronary care units, publications, films, and other teaching aids, 5452, 11754  
 regional medical programs, guidelines, 13076

Heartwood:  
 differences between heartwood and sapwood, 2302

Heartwood—Continued  
 native species, comparative decay resistance, 8065

Heat:  
 capacity measurements, phase composition of frozen montmorillonite-water mixtures, 14792  
 content of blast-furnace and synthetic slags, 6675  
 cryogenic seal remains leaktight during thermal displacement, 12837  
 dispersion of borax in plastic, excellent fire-retardant heat insulator, 8384  
 high intensity radiation source capable of sustained operation, 5215  
 input rates effects on T-1 and T-1A steel welds, 12894  
 losses, sensible and latent, from occupants of survival shelters, 7092  
 shells of revolution possessing variable thickness heat protection, stiffness matrix solution, 11514  
 stability of egg white proteins under minimal conditions that kill salmonellae, 11918  
 thermal characteristics of storage vessel on moon, 5259  
 waste, use for production of fresh water, 6450  
*see also* Heat transfer—Temperature.

Heat (specific), *see* Specific heat.

Heat capacity, freezing point depression and heat capacity of soils, thermodynamic relationships, 8878

Heat exchange, *see* Heat transfer.

Heat exchangers:  
 coldplate of pin fin design makes efficient one, 9839  
 corrosion in hot sea water in experimental loop apparatus, investigation, 15326  
 design parameters and cost, evaluation, computer usage, 14324  
 industrial plant equipment handbook, 977  
 liquid metal, thermal conductivity of layer adjacent to wall, USSR study, 11249  
 tubes supported in high vibration environment, 5220  
 vertical-upflow single-tube, pressure drop and heat transfer for water boiling, 14463

Heat flux, *see* Heat transfer.

Heat of activation, tungsten resonance absorption integrals, determination, 18012

Heat of combustion, methane gas, calculation of heating value for use as reference material, 2743

Heat of formation:  
 lithium sulfate and 5 potassium- and lithium-aluminum silicates, 2577  
 ytterbium and thulium trichlorides, 6683

Heat shields:  
 ablative materials for X-15-2, arc-tunnel evaluation, 5238  
 ceramic, for lifting reentry vehicles, study, 15509

Heat sink, repairable, high-density microelectronic module, 17967

Heat transfer:  
 axisymmetric solutions, solidification in thermal-energy storage systems, analysis, 5246  
 boiling, in zero-gravity environment, 5164  
 boiling, with electrical field, 13334  
 characteristics for dilute gas-solids mixture in externally heated tube, numerical method for determining, 14326  
 characteristics of axial-flow liquid-core nuclear rocket, 14497  
 charts adapted from Spalding and Chilton method, 11518  
 classification definitions, heat exchange, 18127  
 coefficients and static pressures for condensation of high-velocity steam within tube, 9911

Heat transfer—Continued  
coefficients, in convergence nozzles with uncooled pipe inlets, 17005  
computer program resolves radiative, conductive, and convective problems for variety of geometries, 17959  
conduction in moist porous media, 10256  
conical porous membrane during planetary entry, 11554  
convection, conduction, and evaporation in nucleate boiling, assessment, 9907  
convection, ice melting, 7378, 17376  
convectively cooled nuclear rocket type nozzle, design and evaluation, digital codes, application, 5269  
cryogenic hydrogen flowing turbulently in straight and curved tubes at high heat fluxes, 6713  
cylindrical leading edge, effects of shock wave impingement, 6896  
Dowtherm A, tests, final report, 5762  
factors influencing heat transfer to liquid-propellant rocket-thrust-chamber coolant channels, 1484  
film-boiling heat transfer from flat plate effect on subcooling and radiation, 14453  
forced-convection, correlations for gases flowing through wire matrices at surface temperatures to 5500° R, 9913  
formation of non-wettable soils involves heat transfer mechanism, 11124  
fuel temperatures in gaseous nuclear rocket engine, local and average estimates, 16998  
heat and mass transfer at stagnation point, 12869  
heat flux sensor design reduces extraneous source effects, 2656  
high-performance once-through boiling of potassium in single tubes at saturation temperatures of 1500° to 1750° F, 15504  
horizontal spray film evaporator, coefficients, 6440  
liquid-liquid, evaluation for large-scale desalination, 14200  
liquid-metal flow in rectangular channels with heat sources in fluid, 6883  
local, and pressure distributions for freon-113 condensing in downward flow in vertical tube, 11510  
long duration heat flux transducers, theory, etc., 6777  
man in oxygen-helium environment, heat exchange, 81  
manned orbiting space station, thermal control considerations, 11538  
measurements on flat plate with attached protuberances in turbulent boundary layer, 5232  
measurements on rotor blade of rotor entry vehicle model, 12965  
nonwetting, condensing mercury flow in horizontal, sodium-potassium-cooled tubes, experimental investigation, 11541  
one-dimensional heat conduction problems, computational procedure for finite difference solution reduces computer time, 2675  
potassium performance during condensation inside single tubes, 15506  
power required to circulate gas-solids suspensions, 15483  
pressure drop and heat transfer for water boiling in single-tube heat exchanger, 14463  
properties of copper braze bonds, correlation with ultrasonic transmission properties, 8389  
radiant, in fuel region of gaseous nuclear rocket engine, 5183  
radiant, liquid core nuclear rocket engine, potential performance, 18016  
radiative, for large objects at meteoric speeds, analysis, 12958

Heat transfer—Continued  
rate, and orifice size, effect on measured static pressures in low-density arc-heated wind tunnel, 6876  
regeneratively cooled hydrogen-fluorine rocket engine at low chamber pressure, 17006  
roughness effect to hemisphere cylinders at Mach numbers 10.4 and 11.4, 8492  
supersonic aerodynamics, effects, handbook, 1542  
tension shell configurations, investigation, 5270  
thermal conductivity—  
cermet fuel materials, estimating for nuclear reactor application, 8502  
coefficients of dilute neon, krypton, and xenon, 11589  
coefficients of dilute nitrogen and oxygen, 5293  
liquid-metal heat exchanger layer adjacent to wall, USSR study, 11249  
ordinary and deuterated gaseous hydrogen fluoride and their equimolar mixture, 12961  
phenolic-carbon composite, nondegraded and thermally degraded, 16917  
probe for glaciers, 17377  
probes for soils and insulations, 4201  
selected materials, 1523  
wood-base fiber and particle panel materials, 14124  
tubes, capability increased by selective roughening, 6773  
turbulent boundary layer investigation with transfer at high Reynolds numbers, 8488  
turbulent, correlation of free-flight data from axisymmetric bodies with compressible flat-plate relationships, 5272  
turbulent liquid-metal, in channels with heat sources in fluid, theoretical investigation, 1499  
weak locally homogeneous turbulence and heat transfer with uniform normal strain, 5254  
Heat treatment:  
aluminum casting alloy M45, study, 12892  
iron and steel, 2739  
metal parts facilitated by sand embedment, 6779  
stabilizes welded aluminum jigs and tool structures, 2625  
tensile yield strength using least number of specimens, simplified method measures changes, 16879  
Heaters:  
control circuit provides both fast and proportional control, 11445  
space, Federal item identification guide, 15184  
see also Furnaces—Unit heaters.  
Heath, Larman J., recovery of additional oil from water-drive reservoirs, 2574  
Heating:  
induction, of cold plasma and DC plasma enhancement, use in production of superheated hydrogen plasma, 5166  
induction, radio frequency, of low-pressure plasmas, 18035  
rate and surface pressure for flat plate impinged upon by exhaust plume in near perfect vacuum, 6795  
rates, numerical method for determining from thick-calorimeter data, 8486  
resistance, releases structural adhesive, 8469A  
system for homes, description, etc., 15874  
thermal absorption in seeded gases, 12866  
see also Aerodynamic heating—Arc heating.  
Heating apparatus and supplies:  
current industrial reports, 3169, 5863  
equipment, Federal item identification guides for supply cataloging, supplements, 3288

- Heating apparatus and supplies—Continued  
Federal Republic of Germany, market for residential heating equipment, 5953  
industrial heating equipment industry, survey, 10330  
*see also* Heaters.
- Heating elements, *see* Electric heating elements.
- Heaton, Leonard D., neuropsychiatry in World War II, 13311
- Heavy water:  
France, production, study, 1196  
heavy water organic cooled reactor, thorium fuels, evaluation, 5764  
industrial manufacture, East German study, 15378  
intensity measurements of absorption bands, 1550  
measurement of trace levels of deuterium oxide in biologic fluids using infrared spectrophotometry, 11964  
quantitation of trace levels of deuterium oxide using infrared spectrophotometry, 10236
- Hedden, O. K., equipment for applying soil pesticides, 14735
- Hedges, Janice N., address, Nov. 19, 1966, 8796
- Hedman, E. R.:  
elimination of stratification at Lake Cachuma, Calif., 11183  
floods of Nov. and Dec. 1965 in southern California, 1115
- Hee, Olman, demand and price analysis for potatoes, 13252
- Hee Shun Moon, *see* Chun Moon Hee (Hi).
- Hee Lee Duk, *see* Lee Duk Hee.
- Heebink, B. G., measuring surface irregularities in panel products, 11113
- Heemstra, Haymond J., application of improved continuous electrophoresis apparatus to study of petroleum, 9764
- Hegg, Karl M., photo identification guide for land and forest types of interior Alaska, 15287
- Heidelbaugh, Norman D.:  
man during 56-day exposure to oxygen-hellum atmosphere, feeding bite-size foods, 82  
space flight feeding systems, characteristics, etc., 15898
- Heidmann, L. J., herbicides for preparing ponderosa pine planting sites in Southwest, 14110
- Heldmann, Marcus F.:  
chugging instability with liquid-oxygen and gaseous-hydrogen combustors, 11547  
frequency response characteristics of propellant vaporization, 5235
- Helen, Bobette P., basic data on economy of Iceland, 9016
- Heilbroner, Robert L., automation in perspective of long-term technological change, 2487
- Heimann, Rene H., relief, 12222, 13779, 14895
- Heimel, Sheldon, thermodynamic properties of potassium to 2100°K, 16999
- Heinrich, Kurt F. J.:  
scanning electron probe analysis, 5288  
X-ray wavelength conversion tables and graphs for qualitative electron probe microanalysis, 17039
- Heinrich, P. L., dielectric infrared beam-splitter operating in 5 to 30 micron region, 6721
- Helsing, Leonard F.:  
Lake Superior Iron resources, etc., 6678, 14346  
mineral industry of Minnesota, 2557
- Heitz, Glenn E., how cooperatives grow, 12484
- Helfman, Robert S., MAP read-routine for IBM 7094 Fortran II binary tapes, 4845
- Helicopters:  
Army model CH-34, depot maintenance manual, 7401  
calculation and design, 17017  
certification and operations of scheduled air carriers with helicopters, Federal aviation regulations, 6240, 12497  
close-order formation keeping system, final report, 5771  
cross-pointer-type instrument display in landing, 1488  
DYNAGYRO, mechanical stability augmentation system, 13307  
heavy lift, hot cycle rotor system, preliminary design, 10288  
heavy-lift, shaft-driven rotor system parametric analysis and preliminary design, 116  
helicopterborne operations, Marine Corps manual, 15460  
hingeless rotor system, structural loads encountered, exploratory flight investigation and analysis, 1487  
light observation and large load-lifting military, operational experiences, 16983  
light observation, Army procurement, review—  
hearings, 12289  
subcommittee report, 13699  
measurement of low frequency vibrations and their transmission to pilot, 11564  
moving-map instrument display in landing approaches, evaluation, 11531  
night flying over mountains, guidance systems tested, 8089  
Princeton dynamic model track, general description, 7409  
radial-flow turbines, friction and leakage losses in blade-rings, 5277  
rotor air loads, blade motion and stress caused by transient inputs of shaft torque as related to stoppable rotor operation, 13308  
rotor blades, comparison of flight-measured chordwise distributions with static 2-dimensional airfoil characteristics, 11502  
rotor noise reduction, tip vortex core thickening, application, 4220  
sampling tree tops by helicopter, 11123  
tandem-rotor, aerodynamic loads and dynamic response of rotor blades, predicting, 13310  
transmissions, using solid lubricants, investigation, 8897
- UH-1, laminated elastomeric bearings in tail rotor, evaluation, 17389
- UH-1B, fluid state hydraulic damper, 10286  
use for herbicide control of shrub live oak and birchleaf mountain mahogany, 14111
- XV-9A, hot cycle research aircraft, flight test program, 7410
- Heliatechnology (USSR periodical):  
translations, 3396
- Heliports:  
Army airfield-heliport design, general provisions and criteria, technical manual, change, 10274  
District of Columbia, lease property—  
hearing, 960  
law, 12160  
reports, 627, 931  
emergency construction, technical manuals—  
drainage and erosion control structures, 110  
drainage, surface, design, arctic and subarctic, 7395  
drainage, surface facilities, 4214  
flexible pavement, evaluation, 4216  
pavement evaluation concepts, 7392  
rigid pavement, evaluation, 7393  
Helipad standard marking pattern, development study, 17734

# INDEX 1967

## Helium:

- combustibility of materials in oxygen-helium and oxygen-nitrogen atmospheres, 5706
- effect of substitution of helium for nitrogen in mixtures with oxygen on flammability of materials in hyperbaric atmospheres, 11675
- effects as pressurants in nitrogen tetroxide transfer, 9847
- equation of state for helium-nitrogen mixtures, 8374
- genesis, rel. to isotopic abundance of neon, etc., in natural gases, 9785
- helium-neon laser discharge parameter study, 17086
- helium pressurant requirements for liquid-hydrogen expulsion using submerged gas injection, 14492
- leakage tracer, use facilitated by pipe weld testing fixture, 12904
- liquid, simple pump maintains level in cryostat, 8465
- liquid, transfer, resistor monitors, 6750
- liquified, storage and transport, USSR study, 15403
- man in oxygen-helium atmosphere—
  - behavior factors, 86
  - clinical observations, 90
  - enteric microbial flora, 79
  - excretion of sterols and catecholamines, 7366
  - exercise and cardiovascular response, 88
  - 56-day exposure study, 82, 92
  - heat exchange, 81
  - introduction and general experimental design, 91
  - major and minor atmospheric components, 89
  - nutritional evaluation of feeding bite-size foods, 83
  - observations, 80
  - oral, cutaneous and aerosol bacteriologic evaluation, 84
  - renal response, 87
  - selected blood enzyme response, 85
- portable detector set discloses helium leak rates, 9833
- thermodynamic properties of van der Waals fluid in 2-phase region, 11379
- two-constant equation from 30° to 1,473° K, 14357
- volume ion production costs in tenuous plasmas, detailed results, 15577
- Helium isotopes, helium-3, use for control of nuclear reactor with gaseous control system, 14485
- Heller, Christine A., Alaska dietary survey, 14623
- Helmer, William H., prediction of reenlistment, 118
- Helmets:
  - system broadcasts electroencephalograms of wearer, 2660
  - welders, military standard, 9372
- Helminths, antigen structure, use of immunoelectrophoresis for study, USSR, 12664
- Helwig, Cecelia, salad dressing, mayonnaise and related products, 12028
- Hem, John D.:
  - composition of saline residues on leaves and stems of saltcedar (*Tamarix pentandra* Pullins), 6397
  - form and stability of aluminum hydroxide complexes in dilute solution, 15313
- Hemagglutination, indirect, test for *Mycoplasma pneumoniae* employing commercially available antigen and adapted to microtiter technic, 5754
- Hematite:
  - Clinton sandstone deposits, Butt Mountain area, Va., 12819
  - ores of Marquette Range, Mich., flotation procedures, laboratory, etc., development, 14335

- Hematocrit, mean blood hematocrit of adults, 10069
- Hematology, *see* Blood—
  - Immunohematology.
- Hematoma, pressure, relieved with hand-held instrument, 16963
- Hembre, Noble S., civilian manpower management, journal of Navy civilian personnel management, 8602
- Hemicytheridae, *see* Crustaceana.
- Hemiptera in National Museum, notes, 5307
  - see also* Hesperolabopa.
- HemisFair 1968:
  - symbol of growing unity of the Americas (remarks), 7581
  - U.S. participation, amend act—
    - law, 399
    - report, 621
- Hemisphere, Eastern, foreign air carriers, routes authorized under permit, map, 4373
- Hemisphere, Northern:
  - climatology, introduction, 14793
  - components of 1000-mb. winds, 6991
  - daily synoptic weather maps, 3181
  - meteorological body of data, derivation, 8417
  - selected level temperatures and dew points, 6992
- Hemisphere, Western:
  - agricultural policies, 17714
  - agricultural situation, review and outlook, 990, 10925, 16493
  - Balclutha (Homoptera: Cicadellidae), classification, 8547
  - foreign air carriers, routes to U.S. authorized under permit, map, 4374
  - trade corporation income tax returns, data, 11224
  - Western Hemisphere supply and demand study (series), 12456
- Hemisquilla ensigera, *see* Crustaceans.
- Hemlock:
  - forest floors and soils under true fir-hemlock stands, characteristics, 11139
  - scale insect, *Florinia externa*, description, control, etc., 17796
  - western—
    - field testing of *Bacillus thuringiensis* for control of loopers, 14140
    - labor requirements in thinning, 4837
- Hemlock borers, description, control, etc., 16647
- Hemodynamics, *see* Blood.
- Hemoglobin:
  - body total, measurement by bloodless techniques, 10232
  - pathochemistry, USSR study, 14215
- Hemolysis and hemolysins:
  - effect of hypobaric and hyperbaric pressure on cell permeability, initial observations, 7356
  - hemolytic and lecithinase activity, clostridium bacteria toxins effect, 15388
- Hemophilia, anticoagulant effect of hemophilic blood, clotting prolonged in canine transmitter, 10244
- Hemorrhage, tissue oxygenation during shock, 15895
- Hemostasis and coagulation, theoretical concepts, 7340
- Hempstead Harbor:
  - channel improvement, engineer report—
    - departmental edition, 9419
    - document edition, 9073
- Hendee, John C., slash decomposition, laboratory tests fail to confirm acceleration by chemical treatment, 8086
- Henderson, Douglas B., nomination, hearings, 6094
- Henderson, Harry W., terms used in international agricultural trade, 9524
- Henderson, William P., rolling stability derivatives of variable-sweep tactical fighter model, 6887



- Henderson County, Ky., soil survey report, 8698
- Hendricks, Lewis T., distribution methods and end-uses for hardwood face veneer and plywood manufactured in Michigan and Wisconsin, 8074
- Hendrickson, Nora A., relief, 7628
- Hendrix, A. T., modulating valve for programmed temperature, 2
- Henley, John W., electronic computer program for calculating saw log lumber recovery and value, 14080
- Henry, B. W., variation in brown-spot infection of longleaf pine from several geographic sources, 14118
- Henry, Colvern D., relief, 856
- Henry, Jack L., phase relations in uranium monocarbide region of system uranium-carbon-oxygen, 12821
- Henry Bolz Dam and Reservoir, designate, report, 2100
- Hens, *see* Poultry.
- Hepatoma, *see* Tumors.
- Herald of communications (USSR periodical), 3397
- Herbage-timber, differences in relationships between thinned and unthinned ponderosa pine stands, 2316
- Herbarium, *see* National Herbarium.
- Herbert, Edward L., starch and related products in selected countries, 15986
- Herbicides:  
fail to insure success of brushfield prescribed burn, 6366  
for forest plantations, 12571  
for preparing ponderosa pine planting sites in Southwest, 14110  
helicopter-applied, control shrub live oak and birchleaf mountain mahogany, 14111  
injection for controlling cull ohia trees, 8088  
killing weeds, student or classroom science project, 4137  
lawn weed control, 15854  
picloram for killing chaparral species, preliminary rating, 8085  
site preparation, broadcast spray by mist blower tested against understory in Hawaii rain forest, 4842  
weed control in 2-year old walnut planting, 14098  
*see also* Phenoxo herbicides.
- Heredity, hexaploid sweetpotatoes, theoretical segregation ratios of qualitatively inherited characters, 5688
- Heritage to discover, 2184
- Hermetia, species of *Hermetia* of aurata Group, 11609
- Hermetically sealed cells protected from internal gas pressure, 6846
- Herrmsmeier, Lee F., land forming, means of controlling surface water on level fields, 5642
- Hernandez, Fernando O. Garcia-, *see* Garcia-Hernandez, Fernando O.
- Hernandez, Guillermo N., jr., relief, 9217, 13493, 13598
- Hernandez, Hector J. Sanchez-, *see* Sanchez-Hernandez, Hector J.
- Hernandez, Julio D., relief, 10716, 16204, 17509
- Hernandez, Luis Crespo, *see* Crespo, Luis.
- Hernandez, Ramon Baez, *see* Baez Hernandez, Ramon.
- Herr, Robert W., dynamic model investigation of touchdown stability of lunar-landing vehicles, 18042
- Herrick, Owen W.:  
cost analysis of chip manufacturer at hardwood sawmills, 14139  
Kentucky's lumber industry, 11136
- Herrington, Roscoe B.:  
aerial photo techniques for recreation inventory of mountain lakes and streams, 14128
- Herrington, Roscoe B.—Continued  
skiing trends and opportunities in Western States, 11133  
technique for sampling general fish habitat characteristics of streams, 17806
- Hersch, Martin, gaseous-hydrogen-liquid-oxygen rocket combustion at supercritical chamber pressures, 17001
- Hersh, A. S., drag coefficients of microscopic spheres in free-molecule flow, 11407
- Hertter, Christian A.:  
memorial services, 16152  
print as House document, report, 12242
- Hervey, John G., Federal textbook on citizenship, our Constitution and Government, 12632
- Herzog, R.F.K., mass spectrometer analysis of solid materials with ion-microprobe sputter source, 5178
- Hesperolabops, cactus plant bug genus, 14539
- Heterocyclic compounds, distillable, identification from coal tar, 12795
- Heterodyne operations of avalanche photodiodes, 18923
- Heterodyne phase shifter with inductive delay line, etc., 16977
- Heteroptera in National Museum, notes, 5307
- HEW, *see* Health, Education, and Welfare Department.
- Hewes, Donald E., analysis of self-locomotive performance of lunar explorers based on experimental reduced-gravity studies, 11501
- Hewitt, Francis S., Committee on Appropriations, Senate, 100th anniversary, 9183
- Heyl, Allen V., aeromagnetic and tectonic analysis of upper Mississippi Valley zinc-lead district, 4888
- Heyson, Harry H.:  
equations for application of wind-tunnel wall corrections to pitching moments caused by tail of aircraft model, 2715  
tables of interference factors for use in correcting data from VTOL models in wind tunnels with 7 by 10 proportions, 9825
- HIFIR (high flux isotope reactor), *see* Reactors (atomic).
- HHFA, *see* Housing and Home Finance Agency.
- Hi Chun Moon, *see* Chun Moon Hee (Hi).
- Hi: I'm Mr. Money Wise, 14649
- Hibbing, Minn., nonmagnetic taconite occurrences in area, reexamination, 14346
- Hickerson, Harold, land tenure of Rainy Lake Chippewa at beginning of 19th century, 6974
- Hickman, Robert C., Chattanooga shale investigations, 9783
- Hickory, redcedar mixtures established in poor oak-hickory forests, 8073
- Hicks, J. R.:  
fog dispersal experiments using propane at Walla Walla, Wash., 11984  
improving visibility during periods of supercooled fog, 7381
- Hicks, Raymond M., some effects of Mach number and geometry on sonic boom, 18041
- Hides and skins, *see* Leather, hides, and skins.
- Hiers, Robert S., effects of shock wave impingement on heat transfer on cylindrical leading edge, 6896
- Higgins, Ralph V.:  
computer techniques for predicting 3-phase flow in 5-spot waterfloods, 15477  
unique properties of permeability curves of concern to reservoir engineers, 14360
- High energy physics, *see* Atomic energy.
- High Plains, *see* Southwest (U.S.).
- High Rock Nature Conservation Center, New York City's educational workshop for children, 13959



# INDEX 1967

- High schools :  
aid to strengthen and improve educational quality and opportunities, administration of programs, notes and working papers, 10865-867  
biology, radioisotopes experiments, bibliography, 3797  
football contests, protect from professional contests—  
hearings, 742  
law, 504  
law, legislative history, 2064  
law, summary, 4566  
Senate amendments, summary, 4568  
Gallaudet College, model secondary school for deaf to serve National Capital region, establishment, etc.—  
law, 408  
law, legislative summary, 8192  
graduates, Presidential scholars, 4717  
high school and cultural illiterate, 7899  
model spacecraft construction units for secondary school industrial arts, 2594  
public secondary day schools, pupils, teachers, etc., fall 1966, statistics, 7896  
see also Secondary education—Students.  
High Speed Ground Transportation Panel, see Panel on High Speed Ground Transportation.  
High-temperature materials, see Refractory materials.  
Higher education, see Colleges and universities.  
Highland, J. D., soil survey of Iowa County, Iowa, 14657  
Highway engineers :  
Public Roads Bureau—  
professional engineer, opportunities, 18193  
training program, opportunities for young engineers, 1593, 18192  
Highway machinery, see Road machinery.  
Highway planning notes, 13100  
Highway safety, see Safety of life.  
Highways, see Roads and highways.  
Hiking, see Walking.  
Hill, Chester A., relief, 344, 543  
Hill, Edward E. :  
preliminary inventory of records of—  
Indian Affairs Bureau, 14506  
National Park Service, 14509  
Hill, T. E. jr., processing of high-iron Arkansas bauxite ores, 9766  
Hill, Thelma P., chemical composition of sedimentary rocks in Colorado, etc., 14172  
Hill-Burton program :  
hospital and medical facilities series under Hill-Burton program, 1579, 7071, 8634-35, 11736, 15690-692  
progress report, 7070  
publications, bibliography, 5459  
Hill-Burton project register, 3398, 8633, 18169  
Hilliard, Jack B., annotated bibliography of Marine Corps in First World War, 14310  
Hillje, Ernest R., entry flight aerodynamics from Apollo mission AS-202, 17009  
Hillson, Louise H. :  
basic data on economy—  
Malaysia, 1943  
Singapore, 7575  
Hilo, Hawaii :  
harbor, tsunami barrier stability—  
navigation opening structures, 2220  
rubble-mound, 16526  
Hilton, David A., sonic-boom measurements during bomber training operations in Chicago area, 1481  
Hilton, Inge H., relief, 10552  
HIM series, 5502-4, 7719-20, 8687, 10084, 18206  
Hindelang, Franz J., coupled vibration and dissociation relaxation behind strong shock waves, 6908  
Hinds, Thomas E., indicators and associated decay of Engelmann spruce in Colorado, 6371  
Hiner, Richard L., slaughtering, cutting, and processing beef on farm, 4106  
Hing Hom Mon, see Hom Shek See, and wife.  
Hinges :  
adjustable, permits movement of knee in plaster cast, 9829  
safety door, for automotive vehicles, Federal standard, 6319  
Hinkle, Melvin E., mineral industry of Maryland, 5116  
Hinsch, Robert T., new overwrapped trays for McIntosh apples, 1674  
Hinshaw, L. B., problems in aerial application : I-V., 17410  
Hinson, William F., effects of jet pluming on static stability of rocket models, 14467  
Hipparchus, AIC 77B, lunar chart, 7330  
Hippchen, Leonard J., personnel and personnel practices in public institutions for delinquent children, 4367  
Hipskind, Roger P., Brazilian income tax legislation, 12133  
Hiranaka, Setsuko, see Wilson, Setsuko.  
Hired farm workers, see Farm labor.  
Hirschmann, E. :  
development of 10.6-micron, laser modulator, 12957  
electro-optic and magneto-optic modulators, 11487  
electro-optic light modulators, 1489  
Hirshhorn, Joseph H., Museum and Sculpture Garden, see Joseph H. Hirshhorn Museum and Sculpture Garden.  
Hirst, Stephen M., basic data on economy of Soviet Zone of Germany, 5956  
Hispanic Foundation, bibliographical series, 12779  
Histochemistry :  
electron-histochemical investigation of experimental myocardial ischemia, USSR study, 14219  
histochemical methods in electron microscopy, USSR study, 12661  
Weil stain on liver, aerial application, problems, 10320  
Histopathology laboratory procedures of Pathologic Anatomy Branch of National Cancer Institute, 15689  
Historians, examination announcement amendment, 10414  
Historic American Buildings Survey, selections, 11616  
Historic Preservation in United States, National Trust for, see National Trust for Historic Preservation in United States.  
Historic sites :  
heritage to discover, 2184  
landmarks, in District of Columbia, registration, report, 14999  
national survey of sites and buildings, prospector, cowhand, and sodbuster, historic places associated with mining, etc., in trans-Mississippi West, 13008  
preservation, as part of urban renewal, law, 465  
preservation program—  
law, 384  
report, 673  
selection of national landmarks, NPS criteria, 8554  
see also names of historic sites.  
Historical chart book, 16591  
History :  
American, publications, price list, 18151  
historical handbook series, 1533  
announcement and order form, 8621  
national defense education act—  
institutes for advanced study, summer 1967, handbook for directors, 1003  
instruction, financial assistance guidelines, 13956

- History—Continued**  
 national defense education act—cont.  
 loans to private nonprofit elementary and secondary schools for equipment and materials, 1007  
 Smithsonian journal of history (periodical), 3879  
*see also* Military history—Naval history—also names of departments, etc.—also subjects.
- History and Geography, Pan American Institute of, *see* Pan American Institute of Geography and History.**
- History and Technology Museum:**  
 battle art, exhibition, 8680  
 contributions from, 9951, 11602  
 title page, contents and index, 14529  
 Smithsonian Institution, growth of United States, 1640–1851, exhibition, 18203  
 White House china of Lincoln Administration, 15600
- Hitchell site, archeology, 10081**
- Ho Koon Chew, relief, 9251**
- Ho Song Hyung, *see* Song Hyung Ho.**
- Hobbies:**  
 hobby shops, bibliography, 17194  
 publications, list, 5411
- Hobbs, Horton H., jr.:**  
 crayfishes and their epizoitic ostracod and branchiobdellid associates of Mountain Lake, Va., region, 15604  
 new crayfish from Alabama caves, notes on origin of genera *Oreconectes* and *Cambarus* (Decapoda: Astacidae), 17050  
 new genera and species of—  
 entocytherid ostracoda, 5305  
 ostracoda with key to genera *Dactylocythere*, 6966
- Hobson, Carol J., fall 1966 statistics of public elementary and secondary day schools, 7896**
- Hoc tap (North Vietnam periodical):**  
 translations, 3945
- Hodge, Paul W., Large Magellanic Cloud, 8681**
- Hodges, Ronald W., revision of Nearctic Gelechiidae, 1, Lita group, (Lepidoptera: Gelechioidea), 6949**
- Hodgkiss, W. S., environmental testing of contaminant producing materials from integrated life, support systems, 11416**
- Hodgson, H. J., progress in range research, 17 western States, 6136**
- Hoertel, Frederick W., rhenium and rhenium-tungsten deposition by thermochemical reduction of hexafluorides, 9767**
- Hofacker, Gerhard, relief, 9244**
- Hoff, Ebbe C., compressed air, diving and submarine medicine, 6628–29**
- Hoffman, C. M., quantitative determination of tritium in natural waters, 1130**
- Hoffman, Donna R., international symposium on developments in irradiation capsule technology, 8903**
- Hofstra, Hilida E. M., relief, 9228**
- Hog cholera:**  
 eradicating, questions and answers, 45  
 eradication program, controls over use of vaccines, GAO review, 9549  
 what you should know about disease, 43
- Hog-lot equipment, 17312**
- Hogan, E. K., soil survey, Judith Basin area, Mont., 7136**
- Hogs, *see* Swine.**
- Hoh Tribe, judgment funds, disposition, law, 378**
- Hohsi, China, *see* Hosi, China.**
- Hoists:**  
 automatically stopped at low deceleration rate, 5213  
 hoisting of mechanically powered vehicles, maritime safety data, 12765  
 telescoping bridge crane hoist, square tubing reduces cost, 17920
- Holder, Shelby H. Jr., marketing and utilization of cotton mill waste, 9390**
- Holding companies:**  
 act of 1933, releases, SEC, 3399  
 savings and loan holding company act amendments of 1967—  
 hearings, 13549, 16316  
 report, 13796  
*see also* Banks and banking—Public utilities.
- Holdridge, Leslie, El Real environmental survey, 8895**
- Hole, Erling, costs and returns, commercial dairy farms, northeast and midwest, 16488**
- Holeski, Donald E., performance evaluation of turbine over range of Reynolds number, 6871**
- Holidays:**  
 certain legal holidays to be always on Mondays, hearings, 15167, 16332  
 commercial holidays abroad, list, 9601  
 Federal, consideration, authorization, report, 4601
- Holidays and National Observances Commission, *see* National Observances and Holidays Commission.**
- Holland, Robert L., Chicago wholesale food distribution facilities, 7278**
- Holland, Spessard L., tributes commemorating 20 years of service, 765**
- Hollenbeck, Ronald P.:**  
 fluor spar in eastern States, 16853  
 mineral industry of Alabama, 2548
- Hollis, Alaska, elevation effects on rainfall, 16635**
- Hollomon, J. Herbert:**  
 addresses, etc.—  
 May 16, 1966, 244  
 Nov. 2, 1966, 243  
 Nov. 30, 1966, 4429  
 Dec. 15, 1966, 4452  
 Jan. 9, 1967, 7568  
 Mar. 15, 1967, 7583  
 Mar. 29, 1967, 7584  
 May 25, 1967, 12130  
 June 6, 1967, 12128  
 June 8, 1967, 12129
- Holloway, Harold D., manual of procedures and methods for calculating brine disposal costs, 12645**
- Holloway, Paul F., orbital recovery problem, etc., 12969–970**
- Holmgren, Arthur H., checklist of vascular plants of intermountain region, 14125**
- Holms, Arthur G., designs of experiments as telescoping sequences of blocks for optimum seeking (as alloy development), 14490**
- Holothuroides, *see* Sea cucumbers.**
- Holsinger, John R., subterranean amphipod genus *Stygonectes* (Gammaridae), 12996**
- Holstein cattle, *see* Cattle.**
- Holt, E. H., experiments in low energy plasmas, 17942**
- Holt Lock and Dam, spillway and navigation conditions, hydraulic model investigation, 4744**
- Holyoke, Mass., housing discrimination, report, 4385**
- Hom Sheck See, and wife, relief, 9249**
- Home canning of fruits and vegetables, 15850**
- Home care, *see* Medical care.**
- Home economics:**  
 canning and food preservation, helpful Government publications, list, 15673  
 family economics review, 3260  
 home and garden bulletins, 31, 1697–98, 4107, 5629–33, 7272, 8831–32, 10171, 11930–931, 13224–226, 14743–744, 15850–855, 17313–319  
 homemakers, publications, list, 8206  
 homemakers, simplified housekeeping directions, job sheets, Spanish edition, 2387  
 program aides, guides—  
 fruits and vegetables, 4133  
 milk, 47  
 sewing by hand, teaching guide, 7286

- Home economics—Continued
  - publications, price list, 17132
  - research reports, 13227, 15856
- Home economists, examination announcement, discontinuance notice, 5932
- Home freezers, *see* Freezers.
- Home Improvement Month, National, *see* National Home Improvement Month.
- Home labor, fair labor standards act, employment of homeworkers in industries, 15819
- Home loans, *see* Loans.
- Home rule, District of Columbia, reorganization of government, recommendations, message from the President, 7599
- Home work in industry, *see* Home labor.
- Homemaker service, *see* Visiting housekeepers.
- Homemaking, *see* Home economics.
- Homeowners, *see* Homes.
- Homes:
  - all-electric, annual bills, 4771.
  - building, know the soil you build on, 11927
  - building outlook, and 1967 economy (remarks), 7570
  - construction, maintenance, community development, publications, price list, 7057
  - fallout protection—
    - home basements, evaluating techniques for improving, 5765
    - homes with basements, handbook, 13425
  - FHA insured loans for improvements, 4904
  - FHA insured mortgages—
    - area trends, 9454, 12504
    - characteristics, trends, 3333
    - State trends, 9455, 12506
  - FHA regulations, amendments—
    - mortgage insurance, 1046, 6252, 11011
  - mortgages, 17737
  - financing home purchases and home improvements, FHA, 16708
  - fire resistant construction, 15849
  - heating, economical and efficient system, description, etc., 15874
  - home health agency manual, revisions, 8687, 18206
  - homemaker-home health aide in personal care, training, 15714
  - homeowners, losses incident to closing military installations, assistance, authorization—
    - hearings, 7796, 9147, 13695, 16395
    - law, 17555
    - reports, 9277, 10564, 10572, 13684, 13688, 16284, 16371
  - improvements, three ways to finance through FHA, 11202
  - mortgage debt, estimated, quarterly, 3244
  - national forest summer home permits terminated, compensation to permittee, hearing, 17586
  - one-family, sales, 1965 annual statistics, 4305
  - supervisor, examination announcement, amdt., 12107
  - trade-ins, how FHA helps, 4901
  - trees, color it green, calendar of activities for arborists, 5676
  - vacation, northern New England, 1966 study, 18116
  - veterans—
    - FHA mortgage insurance, 11201
    - home buying guide, 17286
    - wood products for, selection and use, 7264
  - see also* Housing.
- Homes (institutions), *see* Children's homes—Nursing homes.
- Hominy grits, domestic corn (hominy) grits bulletin, 3213
- Homocœanu, Emil, relief, 287, 843
- Homogeneous turbulence, *see* Turbulence.
- Homopolar generators, performance, improved with high reluctance rotor rings, 5153
- Homoptera, general catalogue, 12
  - see also* Leafhoppers.
- Honda, Nobu, plantation timber on Island of Kauai, 16665
- Honduras:
  - amateur alien radio operators, authorization to operate, agreement, 15773
  - background notes, 8707
  - capsule facts for Armed Forces, 10248
  - mineral industry, minerals yearbook chapter, 14331
  - records of Dept. of State, microcopy, pamphlet to accompany—
    - internal affairs, 18064
    - political relations with U.S., 18065
- Honey:
  - comb, U.S. standards for grades, 13893
  - greater wax moth, pest of honeycombs, control, etc., 10169
  - market news, monthly report, 3400
  - production—
    - annual summary, 11878
    - estimates, 1955-64, by number of colonies of bees, yield per colony, etc., by States, 4150
    - statistics, 2939
- Honey bees, *see* Bees.
- Honeycomb structures, *see* Laminated materials.
- Hong Kong:
  - background notes, 5522
  - capsule facts for Armed Forces, 13285
  - cotton textiles, trade agreements, 2920
  - mineral industry, minerals yearbook chapter, 11354-359
  - visit of N. S. Savannah, agreement, 15795
- Honolulu Magnetic Observatory, magnetograms and hourly values, 7552
- Honors (military), *see* Military ceremonies, honors, and salutes.
- Honors (naval), *see* Naval ceremonies, honors, and salutes.
- Hoods (head-piece):
  - protective passenger smoke hood, aviation medical report, 14812
- Hooker, G. Vernon, Air Force scientific research bibliography, 7304
- Hooker, Verno E., stresses in rock outcrops near Atlanta, Ga., 1409
- Hooper, J. R., steady-state and dynamic operating characteristics of simulated 3-loop space Rankine-cycle powerplant, 2603
- Hoopes, Townsend, nomination, hearing, 15149
- HOPE, highlights of personal experiences in Department of Agriculture under President's Youth Opportunity Campaign, 8833
- Hopkins, Edward J., aerodynamic characteristics of cranked leading-edge wing body combinations, 18039
- Hopkins, Ralph L., synthesis of cyclic sulfides, 12823
- Hopper cars, *see* Freight cars.
- Hopper dredges, *see* Dredges.
- Hops:
  - foreign agriculture circulars, 3345
  - industry of United Kingdom, 8047
  - stocks, 8760
- Hord, Jesse, correlations for predicting leakage through closed valves, 17038
- Hord, Richard A., kinetic theory of bimolecular chemical reaction, diffusive drag, and other processes in gas mixture, 6909
- Horizon:
  - Earth's horizon radiance profile—
    - in 15 micron carbon absorption band, 8417
    - location of reference horizons, derivation, etc., of analytical techniques, 9802
  - infrared, definition, state-of-the-art report, 8416
  - infrared radiance profile variations, 8418
  - star/horizon simulator used to test space guidance system, 11447
- Hormuth, Rudolf P., clinical programs for mentally retarded children, 5905

Hornbills, biting lice found on Bucerotidae, 8541  
 Horne, John E.:  
     addresses, etc.—  
         Mar. 28, 1967, 7960  
         May 12, 1967, 9452  
         Nov. 13, 1967, 17756  
     nomination, bearing, 12401  
 Horns (radio), see Antenna horns.  
 Horowitz, Sylvia, publications of North-eastern Forest Experiment Station, 11135  
 Horticultural products, imports, composition, trends, and sources, 16641  
 Horticulture, ornamental, marketing and other economic information, bibliography, 7885  
 Horton, James A., agricultural marketing, 2997  
 Horwath, Elisabetha, relief, 13604  
 Hose:  
     assembly, lightweight all-metal, has high flexibility and strength, 6797  
     copper, flexible, protected by plastic tubing, 6755  
     entanglements eliminated with rotational fluid coupling, 6754  
     Federal item identification guides for supply cataloging, supplements, 3288  
     flexible, and metal bellows predicting frictional loss, method, 9825D  
     reeled, system for studying vertical distribution of small plankton, evaluation, 14065  
     rubber, visual inspection guide, Federal standard, 16602  
 Hossey, Andrew D., industrial noise, guide to its evaluation and control, 17152  
 Hoshovsky, Alexander, progress of United States Government in scientific and technical communication, 6244  
 Hosi, China, Hohsi Corridor, deserts, description, 16777  
 Hospital and Medical Facilities Division:  
     labor standards for projects, questions and answers, 8634  
     publications, bibliography, 5459  
     Hospital apparatus and supplies:  
         central medical and surgical supply services, manual, 1579  
         treatment tray and sets prepared in hospital CM & SSS, cards, 1592  
     equipment planning guide, 15691  
     packaged disaster hospital—  
         central sterile supply section, organization, 1577  
         equipment, assembling instructions, 2824  
         general stores section, establishing, operating, etc., 2825  
         materials, catalog and guide for distribution, 13081  
 Hospital attendants, nursing assistant, examination announcement, 10429  
 Hospital Corps, Navy, handbook, 5092, 12789  
 Hospital corpsmen, 3 & 2, Navy training course, 8578  
 Hospital Insurance Trust Fund, Federal, Board of Trustees, see Board of Trustees of Federal Hospital Insurance Trust Fund.  
 Hospitalization, see Hospitals.  
 Hospitalization insurance:  
     aged persons, social security amendments of 1967—  
         hearings, 15154, 16409  
         reports, 14953, 14964  
         summary, 15053  
     cost estimates, history, 10082  
     experience under OASDHI system compared to short-range cost estimates, 7117  
     extended care facility under medicare, what it means to you, 7125  
     home health benefits, how medicare helps to pay agency providing, 7128  
     household workers, social security benefits, information, 7122

Hospitalization insurance—Continued  
     medicare—  
         how it helps when entering hospital, 5513  
         people 65 or over, 5511  
         social security benefits, information, 10085  
 Hospitals:  
     birth and fetal death registration, handbook, 11737  
     central medical and surgical supply services, manual, 1579  
         treatment tray and sets prepared in hospital CM & SSS, cards, 1592  
     children in hospital, planning for, 11758  
     discharge survey, participating units in pilot study, 2842  
     District of Columbia, project grants for construction and modernization, hearing, 16405  
     emergencies, preparing hospital plant, 15688  
     environmental aspects—  
         infection control, 8635  
         safety fundamentals, 15690  
         supportive departments, 11736  
     financial assistance not be denied because of certain practices, hearings, 17658  
     health insurance for the aged, hospital manual, 10084  
     Hill-Burton and mental retardation construction authorities, conference with Surgeon General, proceedings, 15692  
     hospital and medical facilities, Hill-Burton program—  
         equipment planning guide, 15691  
         progress report, 7070  
         projects approved for Federal aid, register, 3398, 8633, 18169  
         series, 1579, 7071, 8634-35, 11736, 15690-692  
     hospital and medical facilities series, facilities for mentally retarded, 14629  
     hospital laundry, design and equipment, 7071  
     indirect cost rates, guide for establishing HEW research grants, etc., 12620  
     industry wage survey, 15448  
     medical facilities available to Federal employees injured in performance of duty, 16514  
     medicare program—  
         extended care benefits after hospitalization, 2865  
         how it helps when entering, 5513  
     military medical benefits act of 1966—  
         amend. report, 14941  
         law, 365  
         report, 664  
     outpatient services, how much does medicare pay for, 11797  
     packaged disaster hospital—  
         assembling equipment, 2824  
         central sterile supply section, organization, 1577  
         general stores section, establishing, operating, etc., 2825  
         laboratory section, 2823  
         X-ray section, establishing, operating, etc., 2822  
     partial hospitalization, service of community mental health center, 5430  
     providers of services under health insurance for the aged, directory, 11794  
     Public Health Service—  
         dental internships, 15679  
         grants, etc., for construction, 1966  
         funds, 11755  
         patients discharged, diagnostic and demographic data, statistical summary, 8629  
         pharmacy residencies, 13087  
     Public Health Service and community facilities, cooperative activities—  
         hearings, 12305, 17670  
         reports, 16230, 16247

# INDEX 1967

## Hospitals—Continued

- short-stay hospitals, utilization, summary of nonmedical statistics, 17170
- Turkman SSR, quality and number of medical institutions increase steadily, 14224
- under Fair labor standards act, as amended, 1663
- USSR, report of U.S. delegation on systems planning, 2826
- Veterans Administration—
  - administrative research bulletin, 11890
  - psychologists, examination announcement, 12113
- see also Mental institutions—Naval hospitals—Veterans hospitals—also names of hospitals.
- Hostetler, R. L., ground-based photometric surveillance of passive geodetic satellite, 11413
- Hostetter, Anita, annotated bibliography of publications, 8052
- Hot Springs County, Wyo., Adam Weiss Peak quadrangle, geology, 2360
- Hot Springs National Park, general information, 6980
- Hot Springs quadrangle, S. Dak., geology, 12597
- Hotchkiss, Neil, underwater and floating-leaved plants of United States and Canada, 15267
- Hotels, employees under fair labor standards act, as amended, 7225
- Houghton, Hubert W.:
  - certification requirements for school pupil personnel workers, 9396
  - inventory of counselor education programs, 16504
- Hours of labor:
  - college students under work-study program, amend act—
    - law, 17536
    - reports, 14952, 14959, 15125
  - compensation expenditures and payroll hours—
    - motor passenger transportation industries, 17893
    - pipeline industry, 11310
  - fair labor standards act—
    - handy reference guide, Spanish edition, 5590
    - maximum hours standards—
      - amendments, 7228
      - evaluation and appraisal, 2971
    - overtime pay, computing, highlights, 11895
    - quick look at hours worked, 11898
    - time and pay records, how to keep, 8786
  - Federal civilian firefighters, premium compensation, correction of inequities—
    - law, 450
    - report, 915
  - Government officials and employees, FPM supplement, 3305
  - historical data on hours and earnings, selected references, 8323
  - metropolitan areas of the South, 5071
  - nonagricultural industries, measurement, 16825
  - nonmetropolitan areas of South and North Central regions, 15447
  - output per man-hour indexes—
    - industry, 6612
    - private economy, 11333
  - premium pay provisions for weekend work in 7 continuous-process industries, 5057
  - railroad employees, reduce 16-hour limitation for certain employees, hearings, 4634
  - retail trade, 8302, 11332
    - maximum, study to measure effects of 1961 amendments, 5391
  - seamen on board ship, recommendations of ILO convention, withdrawal of treaty, text, 15064

## Hours of labor—Continued

- union—
  - building trades, 14301
  - local-transit operating employees, 14300
  - motortruck drivers and helpers, 15444
  - printing industry, 15445
- women, maximum, by States—
  - daily, 2976
  - weekly, 8795
- House, Arthur S., communicating by language, speech process, conference proceedings, 7061
- House, Peter W., differential assessment of farmland near cities, experience in Maryland, 17712
- House, T. J., Coast Guard reservist, 3099, 12122
- House Administration Committee, House:
  - calendar, 3477
  - committee prints, 4543, 7748, 15036
  - funds, providing, report, 7680
  - hearings, 739-740, 4544
  - reports, 639-640, 643-644, 2018, 2029-33
    - 4517, 6010, 7674-81, 7719-29, 9103, 9105, 10554, 10582-596, 10605, 12240-242, 12269-271, 12280, 13650-656, 14966, 14968-969, 14979, 16228, 16231, 16253, 16263
  - House documents, 515-528, 1996-2012, 4464-92, 5975-6001, 7593-7613, 9048-78, 10496-523, 12191-209, 13549-559, 14922-929, 16150-163, 17565-570
- House files, see Files.
- House of Representatives:
  - appropriations, 1968, legislative—
    - hearings, 10633
    - law, 13537
    - reports, 10617, 13672, 13813
  - calendars and history of legislation, 3469
  - candidates, campaign expenditures 1966, report of special committee to investigate, 4516
  - contested election—
    - Lowe vs. Thompson, dismissal, etc., report, 12270
    - Mackay vs. Blackburn, report, 12271
  - delegation to conference of Mexico-United States Interparliamentary Group, report, 13704
  - delegation to session of Intergovernmental Maritime Consultative Organization, report, 16234
  - disbursements, detailed statements, 7748, 15036
  - employ additional Capitol police, report, 10584
  - history, pictorial story, 517
  - journal, 89th Cong. 2d sess., 7591
  - legislative employees, training opportunities, report, 16232
  - majority and minority rooms, printing operations, etc., exempt from D.C. sales and use taxes, report, 9087
- Members—
  - election, redistricting standards, establish, reports, 9121, 9126, 17573
  - electric typewriters furnished to, increase number—
    - law, 17561
    - report, 14969
  - four-year terms, hearings, 12417
  - stationary allowance, additional, report, 7676
  - telephone service outside D.C., payment from contingent fund, report, 10583
  - transportation expenses, provide reimbursement—
    - law, 17540
    - reports, 14968, 15138
  - United States Code annotated, or Federal Code annotated, distribution to, provide, report, 16231
  - officers and employees, training under Government employees' training act, hearing, 16431

House of Representatives—Continued  
 payment of compensation to committee staff members, report, 7681  
 Press Gallery superintendents, Official Reporters of Debates, etc., compensation, report, 2033  
 Rayburn Building, construction and related costs, House Office Building Commission, Architect of Capitol, GAO examination, 8131, 9182  
 rule 11, par. 26, 6039  
 rules, amend, report, 9123  
 rules and manual, 7593  
 telephone directory, 7592  
 House Office Building Commission, construction and related costs of Rayburn House Office Building, GAO examination, 8131, 9182  
 House reports:  
   private bills, 529-619, 4493-97, 7614-62, 9079-80, 10524-552, 12210-239, 13560-626, 14931, 16164-227, 17571-582  
   public bills, 620-706, 2013-36, 4498-4519, 6002-24, 7663-7731, 9081-9137, 10553-623, 12240-285, 13627-690, 14932-15009, 16228-300, 17571-582  
 House Resolution 1. Select Committee pursuant to, House:  
   hearings, 6038  
   investigations and studies, expenses, report, 6010  
   report, 7664  
 House trailers, *see* Trailers.  
 House Where Lincoln Died, 11613  
 Household appliances:  
   Federal Item Identification guides for supply cataloging, supplements, 3292  
   ownership and purchases, 1960-67, special report, 14832  
   recent purchases and expected expenditures, report of U.S. households, 16027  
   selected, production and trade, 1963-65, free world, 7573  
 Household goods:  
   and commercial furnishing and appliances, Federal item identification guides for supply cataloging, supplements, 3292  
   consumer buying intentions, 1878, 5884  
   electric housewares, current industrial reports, 4326, 15993  
   shipments overseas, charges for accessorial services, GAO review, 11152  
   storage, erroneous payments to members of Army—  
     law, 486  
     report, 4589  
   unrated, traffic regulation, 4194  
   volume movements from overseas to continental U.S., potential savings by, Defense Dept., GAO report, 8138  
   *see also* Furniture.  
 Household workers, *see* Servants.  
 Households:  
   automobiles and selected household durables, ownership and purchases, 1960-67, special report, 14832  
   by State, population estimates, 7486  
   by type, 1966, population characteristics, 16008  
   cars and household durables, recent purchases and expected expenditures, 16027  
   food consumption in United States, spring 1965, preliminary report, 15826  
   insecticides, guide, 10162  
   population characteristics, 7485  
   projections of number, 1967-85 population estimates, 5882  
   sample survey, Atlantida case study—  
     content and design of household surveys, Spanish edition, 5898  
     distribution and receipt of materials, 1885  
     editing and coding, 4360  
     field operations, instruction manuals, 182

Households—Continued  
   sample survey, Atlantida case study—  
     continued  
     population data controls, Spanish edition, 5899  
     survey objectives and description of country, Spanish edition, 7496  
     tabulation process, 7497  
     workbook for case study, 10387  
   with television sets in U.S., current housing reports, 7477  
   with television sets, UHF and color, in selected metropolitan areas, current housing report, 15989  
 Housekeeping, *see* Home economics.  
 Houser, Leroy S., national register of shellfish production areas, 7078  
 Houses:  
   FHA and VA acquired residential properties, savings possible by consolidating management, GAO report, 11158  
   insulating from aircraft noise, study, 14188  
   newly constructed, need for strengthened procedures to reduce number of extra final inspections, FHA, GAO report, 11148  
   residential financing, impact of 1966 monetary policy (remarks), 7999  
   residential mortgage market, and monetary policy, 11055  
   vacation, building plans, 8837  
   *see also* Farm buildings—Farmhouses—  
     Household goods—Housing.  
 Housing:  
   act of 1949 urban renewal programs authorized by act, operations report, 3824  
   act of 1964, amend—  
     law, 14910  
     reports, 12360, 14945  
   authorized, construction reports, 3135, 8937, 14818  
   summary statistics, 3136  
   basic information—  
     Ethiopia, 6417  
     Ghana, 6418  
     Ivory Coast, 6419  
     Jordan, 6420  
     Liberia, 6421  
   books, list, 4905  
   Brewerville, Liberia, potential savings through constructing rather than leasing, USIA, GAO report, 6379  
   census, 1960, quality control of field enumeration, 17443  
   census, 1970, plans, hearings, 13711  
   census publications, price list, 7056  
   code of Federal regulations, 11037  
   codes and their enforcement in 6 Connecticut cities, 14852  
   college housing loans, savings through more frequent payments, GAO report, 17814  
   consumer buying intentions, 1878, 5884  
   current housing reports, 3168  
   current reports—  
     housing characteristics, 7477, 15989  
     housing vacancies, 1872-73, 7476, 12066, 15988  
   dealers and individuals subject to certain sections of title 1, National housing act, list, 11010  
   demonstration cities and metropolitan development act of 1966—  
     law, 465  
     law, summary, section-by-section analysis, legislative history, and conference report, 725  
   discrimination in sale, etc., eliminate—  
     message from the President, 12199  
     report, 4498  
   discrimination in Springfield-Holyoke-Chicopee metropolitan area, report, 4385



# INDEX 1967

## Housing—Continued

elderly people—  
 FHA mortgage insurance, 6427  
 health services, Dexter Manor story, 5456  
 retirement housing, western style (addressa), 17843  
 experimental projects, Housing and Urban Development Dept., list, 6434  
 fair housing act of 1967, hearings, 17641  
 family—  
 migrant agricultural workers, guide, 11924  
 Navy design manual, 2764, 17066  
 Federal programs—  
 progress report, 9309  
 study, expenses, reports, 4594, 4625  
 FHA multifamily projects, handbook, 2245  
 FHA multiple dwelling projects, investigation—  
 hearings, 2118, 9314  
 report, 12392  
 FHA program, experimental, 6426  
 films, filmstrips, slides, and audio tapes, bibliography, 11204  
 financing condominiums through FHA, 2384, 4903  
 good farm worker housing is good farm business, 2194  
 handbook, improved farm worker housing guide, 17728  
 Hawaii, 1965–70, forecast of requirements, 16664  
 housing and planning references (periodical), 3402  
 housing and urban development act—  
 amend and extend, hearings, 10641  
 beautification aids for urban areas, 6415  
 housing and urban development notes (periodical), 3403  
 housing and urban renewal in Nashville-Davidson County metropolitan area, report, 12099  
 insurable loans, digest, 6433  
 intern program planned for accelerated professional growth and advancement, 4899  
 laws, compilation, 12290  
 legislation for 1967, proposals, hearings, 13847  
 print additional copies, report, 15139  
 living units, minimum property standards, interim revision, 6257  
 loans guaranteed by VA in Illinois, potential savings by revising procedures relating to default, GAO report, 11151  
 low and moderate income groups, new programs, 8193  
 low cost, minimum property standards, 1137, 8201  
 low-income families, leasing program administered by local authorities, 2382, 11199  
 maintenance employees at region 6 housing authorities, HUD, GAO review, 2349  
 measuring quality of housing, appraisal of census statistics and methods, 13413  
 mid-decade census, take in 1975, etc., hearings, 10666  
 middle-aged and older people, patterns of living, 14634  
 military, family—  
 appropriations, 1967, law, 457  
 appropriations, 1968, hearings, 15016, 16305, 17637  
 telephone service, methods used to provide, Defense Dept., GAO review, 6383  
 minimum property standards—  
 elderly and handicapped persons, 9582  
 multifamily, 11014–15  
 mortgage credit, Federal policies, hearings, 15151  
 national housing act, amend—  
 hearings, 13849, 15019, 16316  
 reports, 4500, 4502, 13796

## Housing—Continued

national housing act and other laws, correct obsolete references—  
 law, 10488  
 reports, 6085, 9137  
 nonprofit-sponsored, for open occupancy, 8202  
 owner occupied, imputed income, 7129  
 public, low-rent, local authorities participating in PHA programs, 3520  
 publications available from Division of International Affairs, HUD, 8205  
 racial discrimination (statement), 13057  
 rehabilitation, HUD programs, report, 17643  
 rent subsidy, large-family, demonstration program, report, 5295  
 rent supplement assistance, FHA regulations, 1048  
 rent supplement proposals, guide for sponsors and housing owners, 6424, 11200  
 rental & co-op—  
 families of low and moderate income, FHA mortgage insurance, 12624  
 rural areas, loans, 10194  
 rental housing, FHA program, what is it, how it works, 6423  
 rural, Farmers Home Administration loans, 10188  
 sales, construction reports, 4305  
 sales of new one-family homes, construction reports, 3138  
 savings and home financing, source book, 1966 data, 14023  
 senior citizens—  
 loan program, information for applicants, 16712  
 loans to nonprofit corporations, 2383  
 Nation's Capital, program, 11593  
 starts, construction reports, 3137  
 statistics, monthly, 3404  
 tenants' rights, legal tools for better housing, report on conference, 14277  
 urban market analysis, 11205  
 urban renewal directory, 4008, 15725  
 urban renewal project characteristics, 15726  
 vacant units in U.S., 1872–73, 7476, 12066, 15988  
 Veterans Administration policy, loan guaranty and direct loan programs, hearings, 12319  
 Washington, D.C., area, Federal employee's guide, 4906  
*see also* Barracks and quarters.  
 Housing and Home Finance Agency, general records, preliminary inventory, 14507  
 Housing and Urban Development Department:  
 aids for fallout shelters, 12625  
 annual report, 8196  
 appropriations, 1967, supplemental, hearings, 2040  
 appropriations, 1968—  
 hearings, 15147  
 reports, 10600, 15131  
 consumer bulletins, 2384, 4901, 4903–4, 6422–28, 8197, 11199–203, 12623–624, 12626, 16708, 17838  
 Consumer Relations Services, newsletter, 3146  
 Division of International Affairs, available publications on housing, building, and planning, 8205  
 establishment, correct obsolete references in laws—  
 law, 10488  
 reports, 6085, 9137  
 Federal beautification and open-space land programs, questions and answers, 4902  
 flood insurance program, establish, hearings, 12400  
 General Counsel, nomination of Thomas C. McGrath, Jr., hearing, 6092  
 honor awards for design excellence, 16710



Housing and Urban Development Department—Continued  
housing intern program, brief description of main features, 4899  
HUD at a glance, general information, 6429  
HUD IP—(series), 2380-84, 4900-4, 6422-30, 8197, 11200-203, 12623-626, 16708, 17835-838  
HUD-MP (series), 2385, 4905-7, 6431-32, 8198-8200, 9580, 11204, 12627, 14187, 15317, 16709-710, 17839  
HUD PG—(series), 1137, 4908-9, 6433, 8201-3, 9582  
HUD SP MP series, 15317  
HUD TS—(series), 6434-35, 8204, 11205-207, 14188, 16711, 17840  
HUD, what it is, what it does, 17836  
job where the action is, 4907  
maintenance employment classifications and wage rates, region 6, GAO review, 2349  
mass transportation program, emergency provisions, temporary extension—law, 13522  
reports, 12388, 13634  
meeting with officials, hearings, 9150  
opportunities for reducing Federal contributions by maximizing investment of excess funds held by local housing authorities, GAO report, 6376  
past, present and future report (remarks), 9581  
press releases, 3735  
publications, list, 6431  
rehabilitation programs for existing housing, report, 17643  
selected publications, list, 8199  
strengthening community services in low-income neighborhoods, concerted services with HEW, task force report, 17840  
technical studies and experimental housing projects, list, 6434  
urban transportation programs help urbanites, 17837  
Housing Assistance Administration:  
audit report, 5997  
college housing loans, savings through more frequent payments, GAO report, 17814  
financial statements, 1966, GAO examination, 4875  
Housing insurance, *see* Mortgage insurance.  
Housley, Mrs. A. E., relief 7621, 10477, 10706  
Houston, Billy J., methods of reducing size and number of voids on formed concrete surfaces, 16529  
Houston, Sam, Fort, *see* Sam Houston, Fort.  
Houston, Tex., area wage survey, 16819  
Houston County, Ga., soil survey report, 14656  
Hout, Jerry L., contribution toward bibliography on brant, 16634  
Hovenweep National Monument, general information, 15612  
Hovering:  
performance characteristics of rotor with and without blade-pitch servo-control flaps, 5260  
V/STOL height control requirements under visual conditions, 11524  
How foreign policy is made, 2881  
How our laws are made, 10520  
reprinting, reports, 10589, 10788  
How to compute injury rates, 9701  
How to investigate accidents, 9712  
How to train workers on the job, 5718  
How to use USDA grades in buying food, 5671  
Howard, Dean D., microwave monitoring of sea water contamination of Navy fuel oils, 15637  
Howard, James C., application of computers to formulation of problems in curvilinear coordinate systems, 9906

Howard Hanson Dam, outlet works and stilling basin, hydraulic model investigation, 2201  
Howe, Harold, II:  
addresses—  
June 5, 1966, 996  
June 14, 1966, 998  
June 18, 1966, 1004  
June 21, 1966, 1015  
July 14, 1966, 9403  
Aug. 9, 1966, 9408  
Aug. 25, 1966, 9412  
Sept. 29, 1966, 9407  
Oct. 14, 1966, 9404  
Oct. 23, 1966, 7892  
Nov. 18, 1966, 2192  
Nov. 30, 1966, 2188  
Dec. 6, 1966, 2179  
Feb. 13, 1967, 6177  
Feb. 23, 1967, 6179  
Mar. 1, 1967, 7903, 7918  
Mar. 4, 1967, 6190  
Mar. 9, 1967, 7902  
Mar. 19, 1967, 7900  
May 22, 1967, 10935  
June 11, 1967, 12463  
June 13, 1967, 12462  
July 10, 1967, 12464  
July 21, 1967, 13957  
Aug. 7, 1967, 15210  
Aug. 10, 1967, 13965  
Aug. 22, 1967, 15214  
Sept. 22, 1967, 16512  
Sept. 26, 1967, 16505  
Oct. 24, 1967, 17716  
education, everybody's business, aspects of contemporary scene, 6180  
human frontier, remarks on equality in education, 1006  
Howell, John R., boiling bubbles in water from artificial nucleation sites of known geometry and size, 14491  
Hower, Roland O., freeze-dry preservation of biological specimens, 6950  
Howitzers, rigging for airdrop, technical manual, 15950  
Hoy, Fun Wat, relief, 337  
Hoyle, Bernadette W., information services in public welfare agencies, 10134  
Hoyt, Charles D., mineral industry of Bolivia, 12798  
Hruschka, Howard W.:  
sprout prevention in potatoes, 17301  
storage and shelf life of packaged rhubarb, 5645  
Hsia, Tao-tai, guide to selected legal sources of mainland China, 11338  
Hualapai Indian Reservation, leasing of Indian land for 99-year term, authorize, report, 12244  
Huang, K. P., thrust augmentation characteristics of jet ejectors, 10290  
Hubbell Trading Post National Historic Site, general information, 18091  
Huber, N. King, Cenozoic volcanic rocks of Devils Postpile quadrangle, eastern Sierra Nevada, Calif., 14170  
Huber, Norman W., soil survey of Red Willow County, Nebr., 11809  
Huber, Paul W., deduction of reentry plasma properties about manned orbital spacecraft from radio signal attenuation data, 14494  
Huckleberries, *see* Blueberries.  
HUD, *see* Housing and Urban Development Department.  
Huddle, Franklin P., contributions of science and technology to Federal crime insurance, 16437  
Huddleston, Jerry S., soil survey of Tate County, Miss., 11811  
Hudelson, John C., screw-seal performance in vacuum environment, 6885  
Hudson, C. Michael, investigation of fatigue crack growth in Ti-8Al-1Mo-IV (duplex-annealed) specimens having various widths, 8494

# INDEX 1967

- Hudson, Catheryn Seckler-, *see* Seckler-Hudson, Catheryn.
- Hudson, John A., navigator, 3612
- Hudson, Wayne R., effect of tensile stress on current-carrying capacity of commercial superconductors, 2719
- Hudson Bay :  
sailing directions, 13020  
surface water quality of basin, 2375
- Hudson Strait, oceanography, 10445
- Huerta, Ramiro Velasquez, *see* Velasquez Huerta, Ramiro.
- Huertado, Felix P., Hurtado Perez, Felix.
- Huffman, Claude, determination of gold in geologic materials by solvent extraction and atomic-absorption spectrometry, 16688
- Hughes, B. C., Project Pre-Schooner II, Bruneau Plateau, Idaho, technical director's summary report, 5781
- Hughes, G. H., techniques used to measure evaporation from Salton Sea, 9572
- Hughes, Harry M., manipulating dates and time lapses in computerized records system, 72
- Hughes, Kathryn S., storing food at home, aid to extension and village workers in many countries, 14022
- Hughes, Leon S., reconnaissance of chemical quality of surface waters of Neches River basin, Tex., 17830
- Hughes, Patrick E., mariners weather log (periodical), 3541
- Hughes, R. E., naval weather service computer products manual, 15618
- Hul Yoo Young, *see* Yoo Young Hul.
- Hull, E. W. Seabrook, atom and the ocean, 15978
- Hull, Melvin K., evaluating winds aloft by simplified field technique, 4838
- Hulls (ships) :  
structures—  
behaviour, survey of recent British work, 5488  
residual strains and displacements within plastic zone ahead of a crack, 5489  
testing basin of Navy, means of experimentation and research, France, 11258
- Hulsing, Harry :  
measurement of peak discharge at dams by indirect method, 9576  
velocity-head coefficients in open channels, 1133
- Human engineering :  
aerospace systems and equipment, design criteria, military standard, 15191  
critical tracking task, theory and experiments with first-order divergent controlled element, 1426  
human factors research and development, 12th annual conference, proceedings, 4219  
weather forecasting, human processing of information, 8862
- Human factors, *see* Man-machine systems.
- Human factors in engineering design, *see* Human engineering.
- Human frontier, remarks on equality in education, 1006
- Human race, *see* Man.
- Human relations, future international meetings, world list, 4074
- Human resources, *see* Ability.
- Human rights, *see* Civil rights.
- Human Rights Committee, *see* United States Committee on Human Rights.
- Human Rights Year, International, *see* International Human Rights Year.
- Human water exchange in space suits and capsules, 12863
- Humanities :  
in defense of nonpragmatic curricula studies (address), 7900
- Humanities—Continued  
national defense education act, loans to private nonprofit elementary and secondary schools for equipment and materials, 1007
- Humanities, National Endowment for the, *see* National Endowment for the Humanities.
- Humes, Arthur G. :  
new cyclopoid copepoda associated with—  
alcyonarian coral, 6959  
coral *Psammocora contigna* (Esper) in Madagascar, 6965
- Humes, Glenn D., relief, 254, 799
- Humidity :  
sensor, fluidic oscillator used for measuring, 8473  
sound absorption in air versus humidity and temperature, 6707
- Hummel, Don :  
addresses, etc.—  
Feb. 15, 1967, 6436  
Sept. 26, 1967, 16715
- Humphrey, Hubert H. :  
addresses, etc.—  
Oct. 11, 1966, 5446  
Nov. 16, 1966, 1961  
Jan. 19, 1967, 4455  
Jan. 26, 1967, 9580  
Feb. 7, 1967, 14209  
Mar. 14, 1967, 17839  
Aug. 7 and 8, 1967, 15317  
one million dropouts, Sputnik of 1967, 17721
- Humphrey, Maurice E., soil survey of Caldwell County, Ky., 8695
- Humphrey, Thomas F., paper presented Jan. 1967, 5478
- Humphreys, Clark M., sensible and latent heat losses from occupants of survival shelters, 7092
- Hung-ch'i (periodical) :  
translations, 3946
- Hungarian Meteorological Society, 39th plenary session, work reported, 14220
- Hungary :  
Academy of Sciences, secretarial report of Department of Biological Sciences, 1269  
catalysis research, current status, 16739  
chemical processing, role in national economy, 1233  
claims of inhabitants, payment, hearing, 732  
computer center, operation of Minszk-22 digital computer described, 15355  
cooling-lubricating fluids for metal-working, development, research results, 14232  
data processing programs, 15375  
doctor and candidates—  
degrees awarded, 1232, 14218  
lists, 1301, 9632  
electron spin resonance research conducted in field of macromolecular chemistry, report, 11256  
Hungarian journalist reports on war in Vietnam, 4988  
industrial radiation chemistry, 14266  
international geodetic conference, 6545  
large scale maps for city, construction and technical planning, requirements, 4981  
meteorology, translation, 15417  
mineral industry, minerals yearbook chapter, 5111  
plant-protecting agent industry and research, world status, with special reference to Hungarian conditions, 16750  
scientists and scientific organizations, news, 2455  
solid-state physics, new developments, 16751  
study mission report, 7809  
technical mechanical research status surveyed, 15415  
tubes, semiconductors, and selenium rectifiers production conference, 9634

Hungary—Continued

USSR boundary, study, 17224  
water resources and their conservation, 12705

Hunger:

America—  
hunger and malnutrition, hearings, 16428

provide nutritious food on emergency basis to any individual to prevent human suffering—  
hearing, 17587  
report, 15080

India, relieve victims, U.S. participation—  
hearings, 7792, 9138  
law, 9037  
reports, 7783, 9083, 9085

race between hunger and hope, hunger is ahead, picture story, 17331

threat of world hunger, greatest challenge facing mankind (address), 23

war on hunger, export potential for U.S. agribusiness (remarks), 16111

war on hunger, monthly news report, 8229

Hunn, Joseph B., bibliography on blood chemistry of fishes, 17783

Hunsaker, Jerome C.:

reappointment—  
law, 12169  
reports, 10605, 10741

Hunt, Noel C., III, immersion diuresis, 15896

Hunter, A. R., photoelasto-plastic method to study stress distributions in vicinity of simulated crack, 8406

Hunter, H. Foster, relief, 253, 836

Hunter, J. Scott, academic & financial status of graduate students, spring 1965, 17715

Hunting:

migratory bird regulations, 1080, 14061, 16623  
more hunting space, ASCS program aid, 7292

Hunting Island Beach:

hurricane survey, engineer report—  
departmental edition, 9418  
document edition, 9072

Huntington, N.Y., population, special census of town, 16022

Huntington, W. Va., wholesale food distribution facilities, 4

Hurdle, Burton G., monostatic acoustic scattering from ocean volume, 13034

Hurlburt, Evelyn M.:

radiolotope experiments in high school biology, 5797  
radiolotope techniques for instruction in biological sciences, 8910

Hurley, Evelyn M., survey of finance companies, 11060

Hurley, William J., relief, 7635

Hurley West quadrangle, N. Mex., geology, 12601

Huron, Lake, small craft, gale and whole gale warning facilities chart, 14723

Hurricanes:

administrative leave for Federal employees, hearing, 748

Betsy, nurses serve in disaster, 18168  
greatest storm on earth, 17738

Project Stormfury, ESSA fact sheet, 16538  
safety rules, 16534

surveys, engineer reports—

Alabama Coast—  
departmental edition, 10948  
document edition, 10507

Beaufort Inlet to Bogue Inlet, N.C.—  
departmental edition, 2203  
document edition, 1996

Bogue Inlet to Moore Inlet, N.C.—  
departmental edition, 2204  
document edition, 1997

Cape Fear to North Carolina-South Carolina State line—

departmental edition, 2205  
document edition, 2005

Hurricanes—Continued

surveys, engineer reports—continued  
Edisto and Hunting Island Beaches, S.C.—

departmental edition, 9418  
document edition, 9072

Mississippi coast—  
departmental edition, 10957  
document edition, 10506

Outer Banks between Ocracoke Inlet and Beaufort Inlet, N.C.—

departmental edition, 2215  
document edition, 2004

Hurtado Perez, Felix, relief, 552

Husack, Ralph, effect of gamma radiation on reaction of anthracite with fluorine and chlorine, 2585

Husbands and wives:

budgeting for young couple, guide, 17318

District of Columbia motor vehicle or trailer registration, facilitate addition of name of spouse of owner—

law, 12178  
reports, 12382, 13640

food for young couple, 15852

married couples in Peace Corps, 5379

mentally retarded or physically handicapped spouses of members of Armed Forces, use of private facilities, report, 14941

Husby, David M., oceanographic observations, North Atlantic Ocean Station Charlie, 10444

Huss, Ralph E.:

records of Dept. of State relating to—  
Belgium and other states, 18069

internal affairs of Honduras, 18064  
political relations between U.S. and Belgium, 18068

Huston, James A., sinews of war, Army logistics, 1397

Hutchison, John E., long term forecasts of supply and demand of agricultural and livestock products in Venezuela, 12456

Hutkin, I. J., vapor gap osmotic distillation process, 2394

Huyck, Earl E., health, education, and welfare indicators, 3394

Hwa Hwang Duk, see Hwang Duk Hwa.

Hwang Duk Hwa, relief, 10545, 13519, 13756

Hybrid solid state switch replaces motor-driven power switch, 12896

Hybridization:

esocids, interspecific hybridization, hatching success, pattern development, and fertility of F<sub>1</sub> hybrids, 12551

natural hybrids among pond, loblolly, and pitch pines, 14137

Pinus contorta X banksiana, performance, 9533

Hyde, Rosel H., nomination, hearings, 6094

Hydrates:

beryllium sulfate, low-temperature thermodynamic properties, 9777

multivalent cations, new class of molten salt mixtures, 9794

reaction kinetics, studies, 6447

Hydration:

hyperhydration and parotid flow in man, 7349

thermodynamics and kinetics, 6446

Hydraulic engineering, circulars, 14640

Hydraulic fluids, see Fluids.

Hydraulic machinery, prop, lightweight recoverable, design and development, 17913

Hydraulic mine filling, vibratory compaction of backfill, 9774

Hydraulic turbines, see Turbines.

Hydraulics:

acoustic velocity meter, report on system development and testing, 14167

applications of hydraulics, 9576, 11184-185, 14176

high-energy-rate magnetohydraulic metal forming system, 11463

hydraulically controlled flexible arm can bend in any direction, 6788

Hydraulics—Continued

- model investigations
    - Arkansas River—
      - lock and dam no. 4, navigation conditions, 2221
      - navigation entrance, 17737
      - project, low-lift locks, filling and emptying systems, 4743
    - Belleville Locks and Dam, Ohio River, navigation conditions, 1030
    - Burns Waterway Harbor, Ind., stability of proposed breakwater, 7933
    - Columbia Lock and Dam, Ouachita River, navigation conditions, 6212
    - Eau Galle Reservoir, Eau Galle River, 10960
    - Gering Valley project, drop structure, 6213
    - Hilo Harbor tsunami barrier, 2220, 16526
    - Holt Lock and Dam, Warrior River, Ala., spillway and navigation conditions, 4744
    - hopper dredge dragheads, 6211
    - Howard Hanson Dam, Green River, Wash., outlet works and stilling basin, 2201
    - Little Sioux River, Iowa, control structure, 7931
    - Lower Monumental Dam, Snake River, Wash., spillway and stilling basin, 10949
    - McAlpine Locks and Dam, navigation conditions, 6210
    - Millers Ferry Lock and Dam, Alabama River, navigation conditions, 10961
    - Turtle Creek, Pa., channel improvement, 7932
    - Willow Springs and Sag Junction diversions, Chicago Sanitary and Ship Canal, 10962
  - Morrow Point Dam, hydraulic model studies, 13103
  - physiographic and hydraulic studies (series), 17823
  - potassium performance during condensation in single tubes, 15506
  - quick-response servo amplifies small hydraulic pressure differences, 6696
  - river hydraulics (series), 1133
  - roughness characteristics of natural channels, 17833
  - service brake systems for automotive vehicles, Federal standard, 6321
- Hydrazine:
- acetylene black in hydrazine, study of thixotropic suspensions, 11679
  - acute toxicity in mice, toxicologic studies, 4183
  - effects on—
    - fat transport as affected by blood glucose concentration, 65
    - liver glycogen, arterial glucose, lactate, pyruvate and acid-base balance in anesthetized dog, 7359
    - renal blood flow, preliminary study, 11967
  - gas chromatographic column enables analysis of propellant hydrazines, 2681
  - in-vivo inactivation of antihemophilic globulin, relation to fibrinolytic mechanism, 14771
  - tissue monoamine oxidase inhibitions by convulsogenic doses, 4181
  - TmPAH depressed by exposure to, effect of sodium acetate, 4177
  - trace amounts in aqueous solutions accurately determined by gas chromatography, 15550
- Hydrazones, tissue monoamine oxidase inhibitions by convulsogenic doses, 4181
- Hydrides, *see* hydrides by names, e.g., Titanium hydride.
- Hydrobiology, *see* Marine biology.

Hydrocarbons:

- aromatic—
    - distillable, identification from coal tar, 12795
    - spark-source mass spectra, using applying electrode, 11380
  - chlorinated, pesticides, identification and measurement in surface waters, 4800
  - fuels, flammability properties, 17094
  - higher order synthesis, on hot tungsten filaments, 8504
  - lubricants, temperature limitations in ball bearings, 15576
- Hydrocortisone:
- effects of 9- $\alpha$ -fluorohydrocortisone and venous occlusive cuffs on orthostatic deconditioning of prolonged bed rest, 7365
  - rapid transfer of cortisol from blood-stream to parotid fluid, 11962
- Hydrodynamics:
- application of Lyapunov stability theory to nonlinear problems, 16915
  - journal bearings, operation in sodium to 800° F, etc., 9901
  - see also* Magnetohydrodynamics.
- Hydroelectric power, *see* Electricity.
- Hydroelectric power plants, *see* Electric power plants.
- Hydrogen:
- atomic, metastable state, comparison of Gryzinski and Born cross sections, 9874
  - ball-bearing retainer materials in 60° R (33°K) gas at 0.8 million DN value, film-transfer studies, 2709
  - chemisorbed on platinum electrode, interaction of carbon dioxide, errata, 8586
  - cryogenic, flowing turbulently in straight and curved tubes at high heat fluxes, heat transfer, 6713
  - embrittlement of ultrahigh-strength steels, study to minimize, 11470
  - gaseous—
    - and liquid-oxygen combustors, chugging instability, 11547
    - flow system and application to high-frequency combustion instability, 12953
    - rocket engine performance at stagnation temperatures up to 200,000 R, 6719
  - helium pressurant requirements for liquid-hydrogen expulsion using submerged gas injection, 14492
  - hydrogen slush-hydrogen gel utilization as fuels for space vehicles, 18006
  - interstitial, of palladium, low-temperature specific heat, 1548
  - liquid—
    - densitometer utilizes open-ended microwave cavity, 11452
    - normal gravity self-pressurization in spherical tankage, 18019
    - storage and transport, USSR study, 15403
    - turbine type flowmeters, performance, 2728
    - use in determining wear and friction of polymer laminates, 2693
  - liquid-oxygen-gaseous hydrogen rocket combustion at supercritical chamber pressures, 17001
  - maser as highly stable frequency reference, 11475
  - molecular, estimation of electron impact excitation cross sections, 11546
  - oxidizer-rich oxygen-hydrogen combustion characteristics, preliminary investigation, 2708
  - plasma, superheated, using induction heating of cold plasma and DC plasma enhancement, production, 5166
  - purification train produces ultrapure gas, 9842
  - quantum mechanical calculations of 2d virial coefficients, 8527

**Hydrogen—Continued**

saturated liquid parahydrogen charted for important temperature range, thermodynamic properties, 17928  
storage vessel on moon, thermal characteristics, 5259  
supersonic mixing of hydrogen and nit, 9507

Hydrogen cyanide from reaction of coal with ammonia, 14349  
Hydrogen fluoride:

ordinary and deuterated gaseous, and their equimolar mixture, thermal conductivities, 12961  
separation of HF from HF-SiF<sub>4</sub>-H<sub>2</sub>O mixtures, 2581

Hydrogenation, distillate fuels, studies, 12817

Hydrogeology, geohydrology of Souris River Valley in vicinity of Minot, N. Dak., 14184

Hydrographic Organization, International, see International Hydrographic Organization.

Hydrography, hydrographic and oceanographic systems for training, 11670

Hydrologic Laboratory, Geological Survey, rock and soil materials, hydrologic and physical properties analyzed, summary, 8182

Hydrologists, career professional positions, examination announcement, amdt., 5920

Hydrology:

agricultural, evaluation by monolith lysimeters, 5687  
Alaska earthquake of 1964—

effects on hydrologic regimen (series), 1122-23, 11177-178  
hydrologic effects outside Alaska, 11177

Alaska, south-central, 1964 earthquake effect on hydrology, 1122

Anchorage area, Alaska 1964 earthquake effect on hydrology, 1123

annual growth of suppressed chestnut oak and red maple, basis for hydrologic inference, 11171  
cavernous limestones of Mammoth Cave area, Ky., 1132

contributions to hydrology—  
Africa and Mediterranean region (series), 11189

Asia and Oceania (series), 11187

United States (series), 2376, 4893, 8177, 8181-83, 11190, 12618, 14181-182, 16704, 17830-831

Cornfield Wash area, Sandoval County, N. Mex., 6412

Eddy County, N. Mex., between Lake McMillan and Carlsbad Springs, 8178

Geological Survey research, 2372, 4891, 11182, 14175

Guam, Mariana Islands (series), 119

hydrologic cycle, 16535

hydrologic data, computer systems for reduction and analysis, 13197

hydrologic data, Oak Ridge area, Tenn., 16704

hydrologic performance of floodwater retarding structures during Colorado storms of June 16-17, 1965, report, 14651

hydrologic properties of earth materials (series), 16701

hydrological factors, effects on agriculture, USSR studies, 4938

hydrology and ecology, Pine Barrens, New Jersey (series), 6408

Kern River alluvial-fan area, ground water, 1116

Lake Bonneville, Weber Delta district, including Ogden, Utah, 6400

Lompoc subarea, Santa Ynez River basin, Santa Barbara County, Calif., 1957-62 inventory, 1117

**Hydrology—Continued**

meteorology and hydrology (USSR periodical), translations, 1278, 1339, 9642

National Reactor Testing Station area, Idaho, 16690

northeastern Nassau County, Long Island, N.Y., 4894

Pahrump Valley, Nev.-Calif., valley-fill and carbonate-rock reservoirs, 14178

rock and soil materials, hydrologic and physical properties as analyzed 1948-60, Hydrologic Laboratory, Geological Survey, 8182

SCS national engineering handbook, 10087

surface water, California coastal basins between San Francisco Bay and Eel River, 15315

Swatara Creek basin of southeastern Pennsylvania, evaluation of hydrologic system, 16703

theoretical papers in hydrologic and geomorphic sciences (series), 2366

USSR literature for 1965, list, 1174

USSR studies, 6564

vegetation and hydrologic phenomena (series), 11171

see also Water.

Hydrometeorology:

Bulgaria, hydrometeorological service tasks discussed at 9th Congress of Bulgarian Communist Party, 11253

hydrometeorological report, 5594

hydrometeorological services of socialist countries of Europe, conference of directors, USSR study, 1179

noise-rejection coding of digital teletype communications in complex automatic hydrometeorological telemetering systems, USSR study, 8275

numerical weather forecasting methods used in hydrometeorological service, USSR study, 1184

USSR, hydrometeorological services news, 1175

Hydrooptics, visual resolution underwater, 14317

Hydrospace, radiolabel applications, 1776-77, 5760-62

Hydrostatics:

force used to handle oversized, heavy objects, 12897

porous mandrels provide uniform deformation in hydrostatic powder metallurgy, 12916

pressure, large-diameter ring-stiffened cylinder subjected to, test, 1479

Hydroxyl, radicals, reaction rates with carbon monoxide, 16997

Hygiene:

city planning problems, USSR conference, 5002

contributions of scientists in hygiene, physiology, and scientific organization of labor, USSR study, 16767

industrial, publications, price list, 17135

labor hygiene and occupational diseases (USSR periodical), translations, 6510

labor, USSR studies, 1313

public health organization principles, USSR study, 1192

see also Health.

Hygiene and Epidemiology Institute, Bulgaria, organization and tasks, 6497

Hyland, Howard L., plant inventories, plant material introduced, 8810, 15828

Hymenoptera, American north of Mexico, 7267

see also Wasps.

Hyperbaric atmosphere, see Atmosphere.

Hyperbaric hemolysis, see Hemolysis and hemolysins.

Hyperhydration and parotid flow in man, 7349

Hypersonic airplanes, see Airplanes.

# INDEX 1967

- Hypersonic flow, *see* Flow.  
Hypersonic performance of several basic and modified diamond-cross-section delta wing configurations, 9884  
Hypersonic speed, *see* Air speed.  
Hypertension, *see* Blood pressure.  
Hyperthemia, carotid and femoral artery blood flow in hyperthermic cats, 5710  
Hypnosis, treating neurodermatitis patients with electrosleep and hypnosis, USSR excerpt, 17874  
Hypnotics and sedatives:  
    depressants—  
        bibliography, fact sheet, 14073  
        fact sheet, 12556  
Hypobaric hemolysis, *see* Hemolysis and hemolysins.  
Hypochlorites, decontamination, application to STOP system, exploratory studies, 10012  
Hypothermia, use in exploration of space, possibilities and prospects, USSR study, 16768  
Hypoxia:  
    acute, regional lactic acid concentration in dogs, 1739  
    chronic, in relation to altitude acclimatization, annotated bibliography, 17363  
    Levy test, use in biomedical monitoring during dynamic stress testing, 7344  
    oxygen deficit incurred, and relation to excess lactate, 7355  
    physiologic changes due to hypoxic bed rest, effects of negative pressure, 7346  
    rats trained to hypoxia, changes in erythrocytes, USSR study, 4985  
Hysong, Clara B., relief, 13571  
Hysteresis:  
    contact angle, effect of liquid structure, 1987  
    loop method, use to study thixotropic suspensions, 10005, 11679
- I**
- I am an American fighting man (Armed Forces), 1764  
I & N reporter, 3405  
I.C.O., *see* Interagency Committee on Oceanography.  
I.L.O., *see* International Labor Organization.  
I.R.S., *see* Internal Revenue Service.  
I see a future, 17297  
IAEA, *see* International Atomic Energy Agency.  
IAGLO, *see* International Association of Governmental Labor Officials.  
Iampietro, P. F., achievement of thermal balance and its maintenance during environmental stress, 1822  
Iao Stream:  
    Maul, Hawaii, engineer report—  
        departmental edition, 13977  
        document edition, 13559  
IATA, *see* International Air Transport Association.  
IAU, *see* International Astronomical Union.  
Ibach, D. B., fertilizer use in United States, by crops and areas, 1964 estimates, 14760  
Iberall, A. S.:  
    anatomy and DC characteristics of arterial system with introduction to its AC characteristics, 11405  
    1967 behavioral model of man, his chains revealed, 14401  
ICAF, *see* Industrial College of Armed Forces.  
ICAS, *see* Interdepartmental Committee for Atmospheric Sciences.  
ICC, *see* Interstate Commerce Commission.  
Ice:  
    accumulation on open mesh metal panels, prevention, 8879  
    aircraft icing, climatological probability, 7318  
Ice—Continued  
    anisotropic lake, ultrasonic pulse measurements, 1754  
    bibliography, with abstracts, 14791  
    central Yenisey River, spring ice jams, USSR study, 12724  
    conditions, weather and crop bulletin (periodical), 4060  
    creep of snow and ice, research report, 7380  
    ice core from Greenland, stratigraphic analysis, 13290  
    interface between ice and silicate surfaces, 11982  
    measurement of natural particulate fallout onto high polar ice sheets, Antarctic and Greenland cores, 17374  
    melting from below, natural convection, 7378  
    melting problem with natural convection, study, 17376  
    preventive compounds, military standard, 16471  
    sheets, effect of basal water layer on dimensions, 4196  
    surface movement on Tuto ramp in north Greenland, 11983  
    *see also* Ice crystals—Sea ice  
Ice breakers:  
    program, Coast Guard authorization, 1968—  
        hearings, 7752  
        law, 13524  
        reports, 10556, 12378  
Ice cream, ices, etc., manufacturing, automation of dairy plants, layouts and operating criteria, 1702  
Ice crystals:  
    formation, at low temperatures, 17375  
    growth rates, studies, 6447  
    nucleation and growth, 6442  
Ice Harbor Dam, fish passage report, 13974  
Icebreakers, *see* Ice breakers.  
Iceland:  
    air navigation services, joint financing agreement with other Governments, 7158  
    Cenozoic pectinids, 11180  
    declaration on provisional accession to GATT, 7151  
    economy, basic data, 9016  
    lights and fog signals, list, 8572  
    change, 5335  
    sailing directions, change, 14571  
ICEM, *see* Intergovernmental Committee for European Migration.  
Ichthyology, *see* Fish and fisheries.  
ICITA, *see* International Cooperative Investigations of Tropical Atlantic.  
ICO, *see* Interagency Committee on Oceanography.  
Idaho:  
    census of agriculture, 1964, State and county statistics, 10396  
    census of business, 1963, retail trade, area statistics, errata, 10339  
    census of manufactures, 1963, area statistics, 155  
    census of mineral industries, 1963, area statistics, 4285  
    climatological data, 3096  
    county business patterns, 10344, 12047  
    electric rate book, 9457  
    ground water in American Falls Reservoir vicinity, 17832  
    mineral industry, minerals yearbook chapter, 1400  
    National Reactor Testing Station area, hydrology, 16690  
    postal map, 15653  
    potato, special survey, 5558  
    precipitation data, hourly, 3401  
    records, pamphlet to accompany microcopy relating to appointments, 1861-99, of Federal Judges, etc., 18071



Idaho—Continued

- water supply outlook and snow surveys, 4046
- ideas, packed for outdoor fun, Government publications, list, 11711
- identical bidding in public procurement, 17883
- identification:
  - aircraft engine oil components, use of thin-layer chromatography (TLC), 11674
  - chart system simplifies identification of complex design assemblies, 1458
  - coding and application of book up and lead wire, military standard, 12444
  - item identification, supply cataloging manual, 16458
  - manufacturers part and drawing numbering systems, 7847, 10886
  - marking of—
    - combat and tactical transport vehicles, 12443
    - iron and steel products, Federal standard, 2269
    - nickel and nickel base alloys, Federal standard, 16603
  - symbols for iron and steel, nonferrous metals, and alloy products, Communist China, 6547
  - system identification and pattern recognition, 9810
- identifying bee diseases in apiary, 5624
- ideology:
  - and inflation implications of price and wage trends for national stabilization policies (remarks), 15249
  - United States ideological offensive in winning cold war, hearings, 10623
- Idioceridae, catalogue, 12
- Idolatria, see Microlepidoptera.
- IER, see Institutes for Environmental Research.
- IES, see Institute for Earth Sciences.
- IFAK, see International Federation of Automatic Control.
- IFF radar (Identification, Friend-or-Foe), see Radar.
- IFR, see Instrument flight rules.
- Ignatius, Paul R., nomination, hearing, 15149
- Igneous rocks:
  - Cenozoic volcanic rocks of Devils Postpile quadrangle, eastern Sierra Nevada, Calif., 14170
  - Dry Mountain quadrangle, Jefferson County, Mont., geology, 2358
  - Elkhorn Mountains, northern, Jefferson and Broadwater Counties, Mont., petrology, 2367
  - volcanic rocks associated with Creede caldera, San Juan Mountains, Colo., 8166
- Igniters, igniting devices, classification definitions, 13043
- Ignition:
  - coal dust and methane mixtures, equivalences and lower ignition limits, 9782
  - incendivity of hot gases to methane and coal dust, reduction by sodium chloride and sodium nitrate, 11383
  - toroidal ring prevents gas ignition at vent stack outlet, 9853
- Igoe, William B., application of Richardson's extrapolation to numerical evaluation of sonic-boom integrals, 6859
- Ignatid, see Lizards.
- IHD, see International Hydrological Decade.
- Iigen, Lewis W., Tolland County, Conn., 7138
- illicit practices affecting U.S. economic program in Vietnam (followup investigation), 14996
- Illinois:
  - air pollution studies, 5438-42
  - area measurement reports, 14816
  - census of agriculture, 1964, State and county statistics, 10389

Illinois—Continued

- census of manufactures, 1963, area statistics, 1837
- census of mineral industries, 1963, area statistics, 4286
- climatological data, 3096
- congressional districts, 90th Congress, 1887
- county business patterns, 1660, 13370, 17425
- electric rate book, 15245
- fluor spar ore, selective flotation, 11382
- highway safety study, Operation 66, joint engineering-enforcement project report, 1594
- housing loans guaranteed by VA, potential savings by revising procedures relating to default, GAO, report, 11151
- labor laws relating to private-household workers, fact sheet, 10137
- mineral industry, minerals yearbook chapter, 6650
- precipitation data, hourly, 3401
- Illinois River, basin project for water pollution control, Lake Ontario program, 9501
- Illness, see Sick.
- Illumination, see lights and lighting.
- Illusions (optical), see Optical illusion.
- Illustrators:
  - examination announcement, 14864
  - discontinuance notice, 14863
  - illustrator draftsman—
    - 1 & C, Navy training course, 11656
    - 3 & 2, Navy training course, 13026
- ILO, see International Labor Organization.
- Image intensifiers, solid state, program for application to military training, final report, 5343
- Image interpreters:
  - analysis of interpreter-computer reporting techniques, 7403
  - catalog technique for measuring image quality, development and evaluation, 7406
  - different viewing devices for photo interpretation, effectiveness, 10283
  - map displays, chip versus hard copy, 4224
  - reference and auxiliary information, organization and presentation, 4226
  - team, use in information exchange, confidence, and resolving disagreements, 5752
  - vertical and high oblique photographs, interpretation, 5750
- Image recognition, USSR, 9635
- Image sensors, see Sensors.
- Image tubes:
  - design concept for improved photo-scan tube, 12891
  - thermal neutron intensifier, provides brightly visible radiographic pattern, 17921
- Imagery, screening and overlapping, influence on speed and accuracy of photo interpretation, 14804
- IMCO, see Intergovernmental Maritime Consultative Organization.
- IMG, see Informational media guaranty program.
- Imig, L. A., effect of initial loads, etc., on room-temperature fatigue life of Ti-SAl-1Mo-1V titanium-alloy sheet, 14464
- Imlay, Ralph W.:
  - Mesozoic pelecypods Otapiria Marwick and Luperella Imlay, new genus, in United States, 8175
  - Twin Creek limestone (Jurassic) in western interior of United States, 8168
- Immersion:
  - effect on urine composition, 15896
  - water immersion, effect on plasma volume and catecholamine response to tilting, 7345



# INDEX 1967

- Immigration and emigration:
  - cool trade laws, repeal, report, 7684
  - immigration and nationality act, amend—
    - hearings, 7750-51, 17606
    - law, 474
    - reports, 678, 688, 876
  - immigration inspection, what you should know at time of entry to U.S. after visit to Expo 67, 11213
  - investigation, authorization, reports, 4603, 9286
  - laws—
    - administrative decisions, index, 11212, 14193
    - general information, 1138
    - migration of talent and skills, some facts and figures on brain drain, 14681
    - national origins system for selection of U.S. immigrants, abolish, amend act, report, 14965
    - publications, price lists, 10040, 15672
    - scientists and engineers from abroad, recent trends, etc., 9966
    - scientists, engineers, and physicians, brain drain into United States, staff study, 15029
- Immigration and Naturalization Service:
  - annual report, 11210
  - I & N reporter, 3405
  - immigration patrol inspector, examination announcement, 10435
  - interim decisions, 3425
  - officers, authority to make arrests, 15318
- Immigration border patrol, *see* Border Patrol, Immigration and Naturalization Service.
- Immobilization, calcium, phosphorus, and nitrogen mobilization resulting from conditions of inactivity in *Macaca irus* monkeys, 5707
  - see also* Rest.
- Immunoelectrophoresis, use for study of antigen structure of helminths, USSR, 12664
- Immunohematology, laboratory procedures, Army technical manual, 5745
- Impact:
  - dynamic response to impact loadings of acceleration sensors having various mounting characteristics, 11521
  - high impact—
    - loading, temperature responsive valve withstands, 14427
    - pressure regulator withstands impacts of over 15,000 g., 16937
  - hypervelocity craters, in aluminum, projectile size effects, 14468
  - landing, motion of lunar-landing vehicle, procedure for computing, 18043
  - meteoroid hazards, effects, analytical study, 12855
  - of returning disabled Vietnam veteran with reference to rehabilitation, 18143
  - projectiles, initiation of condensed explosives, 14343
  - rail, testing on long travel shock mounts, 14805
  - solids colliding at high speeds, interaction, USSR study, 16744
- Impedance:
  - input admittance of coaxial transmission line opening onto flat, dielectric-covered ground plane, 16993
  - mechanical analysis for lumped parameter multi-degree of freedom/multi-dimensional systems, 11489
- Imperial Council of Ancient Arabic Order of Nobles of Mystic Shrine, *see* Ancient Arabic Order of Nobles of Mystic Shrine.
- Imperial County, Calif., population, special census, 10372
- Imperial National Wildlife Refuge, birds, list, 12547
- Implements, utensils, etc.:
  - food utensils, etc., procedure for bacteriological examination, 17164
- Implements, utensils, etc.—Continued
  - hydrogen storage vessel on moon, thermal characteristics, 5259
- Import Bank of Washington, Export-, *see* Export-Import Bank of Washington.
- Importers, and U.S. merchant marine, 12786
- Imports:
  - by air, foreign trade reports, 3358
  - consumption and general imports, foreign trade report, 14836
  - detentions, food, drug, and cosmetic products, report, 3820
  - foreign trade—
    - airborne, summary reports, monthly, 3995
    - reports, 3351, 8956-59, 14836
    - summary reports, monthly, 4001-2, 4004, 4006
  - from low-wage areas, procedures to relieve domestic industries, etc., injured by, reports, 16242, 16256
  - general, foreign trade reports, monthly, 3353
  - impact on—
    - American industry and employment, procedures to relieve, hearings, 16323
    - American labor, hearings, 6034
    - quotas administered by Customs Bureau, etc., 9357
  - total trade, summary reports, monthly, 4004
  - trade by—
    - commodity, summary reports, monthly, 4001
    - country, summary reports, monthly, 4002
  - United States—
    - country of origin marking requirements for goods imported, 7842
    - trade with major world areas, 10460
  - Vietnam commercial commodity import program followup investigation, report, 14997
  - working day and seasonal adjustment factors and months for cyclical dominance (MCD), 4361
  - see also* Tariff—also names or classes of articles imported.
- Imprisonment, alternatives to incarceration, studies in delinquency, 10135
- Improving service to the public, agency action programs, 14865
- In defense of uselessness, address, 7900
- In-flight response to new non-gyroscopic blind flight instruments, 141
- In-tank shutoff valve is provided with maximum blast protection, 2645
- Incarceration, *see* Imprisonment.
- Incendivity, *see* Ignition.
- Incentive contracting guide, 16927
- Incinerators:
  - concrete block, building plan, 4124
  - incineration in cylindrical combustion chamber, experimental studies, 9763
  - tepee refuse burners, air pollution aspects, 1572
- Income:
  - commercial cotton farms, costs and returns, 1965, 986
  - consumer income—
    - of families and persons in United States, 4355
    - series, 4355, 16026
  - distribution in United States, 1883
  - families and persons, 1947-64, trends, 16035
  - family—
    - average, 16026
    - working wives, their contribution, 11914
  - farm—
    - better income for farmers, 11938
  - costs and returns—
    - commercial dairy farms, northeast and midwest, 16488
    - commercial egg-producing farms, New Jersey, 16489

**Income—Continued**  
**farm—continued**

costs and returns—continued  
commercial tobacco farms, Coastal Plain, North Carolina, 13943  
commercial tobacco-livestock farms, Bluegrass area and Pennyroyal area, Ky.-Ten., 16490  
income situation, 3261  
increase through cooperative programs (address), 7257  
new era farm programs (remarks), 15876  
parity returns position of farmers, report, 13724  
print as Senate document, report, 15100  
teaching taxes program, 8221  
imputed from owner-occupied housing, 7129  
income and budget costs by family type, revised equivalence scale for estimating, 17900  
income-loss protection against short-term sickness, 2866  
limitations under VA pension and DIC programs, hearings on miscellaneous bills, 17613  
low and moderate income families, new programs in health, education and welfare, 8193  
low income—  
better care for people, new title 19, medical assistance program, brief summary, 2228  
families in Spanish-surname population of Southwest, characteristics, 9389  
national income and product accounts, United States, 1929-65, statistical tables, 1829  
productivity, prices, and incomes, study, 12190  
railroads, selected items, 3865  
status of OASDI beneficiaries with and without private pensions, 5514  
tax returns statistics—  
business, 6461, 9599  
corporations, 15337  
individual, 6460, 6462  
1965, and 50-year historical summary, 14206  
personal wealth estimated from estate tax returns, 15336  
sales of capital assets reported on 1962 individual returns, 2411  
*see also* subject from which income is derived.  
**Income tax:**  
administration, agreement with Viet-Nam, 15775  
aged, revise tax treatment analysis of H.R. 5710, 6048, 16346  
bank holding company act, income tax treatment of distributions pursuant to, reports, 659, 7692, 15093  
Brazilian legislation, 12133  
convention with France, 16351  
corporations outside D.C. making loans secured by D.C. property, clarify status, report, 879  
deductibility of accrued vacation pay, extend time, law, 406  
deductions—  
contributions to national and state political committees, amend internal revenue code, hearings, 16408  
farmers, depreciable property, assessments for soil or water conservation or drainage districts, report, 7690  
organizations contributions to, which are deductible, list, 12646  
supplements, 3166  
reserve for certain guaranteed debt obligations, law, 435  
travel, entertainment and gift expenses, rules, 2410

**Income tax—Continued**

depreciation, investment credit, amortization, depletion, 4916  
District of Columbia, increase, report, 672  
donated property appraisals, procedure, 12651  
double taxation, convention with—  
Belgium, protocol, 2908  
Brazil—  
hearing, 17651  
text., etc., 9185  
Trinidad and Tobago, 6063  
hearing, 17651  
report, 17620  
United Kingdom, agreement, 2921  
employee pension annuity, profit sharing, stock bonus plans, etc., 9596  
exemption for combat pay of commissioned officers, increase, law, 452  
Federal tax returns, related forms and publications, description, 12647  
guide for farmers, 1967 edition, 1142  
increase (remarks), 17272  
interest on refunds made within 45 days after filing of return—  
law, 1970  
reports, 2023, 2097  
IRS looseleaf regulations system, 2406, 3525, 6455-56, 8218, 9597, 11220-221, 12649, 14202, 16723, 17851  
opportunities for reducing costs on refunds attributable to net operating loss deductions, GAO report, 11149  
reduction and revision, legislative history of H.R. 8363, 88th Congress, 756  
reporting your tips for tax purposes, 2408  
restoration of investment credit and accelerated depreciation allowance—  
hearing, etc., 7764, 7804  
law, 12168  
legislative history, 13719  
message from the President, 9063  
reports, 7711, 7713, 9271, 10614  
returns, filing directly with Internal Revenue Service centers—  
law, 427  
report, 902  
returns statistics—  
business, 6461, 9599  
corporations, 15337  
foreign tax credit claimed, 11224  
farmers cooperatives, 2412  
individual, 6460, 6462  
1965, and 50-year historical summary, 14206  
sales of capital assets reported on 1962 individual returns, 2411  
senior citizens, tax reform, message from the President, 12198  
supplementary convention with Canada, 4575  
hearing, 17651  
report, 17620  
support test in case of children of divorced or separated parents—  
law, 16134  
reports, 2022, 2099, 7693, 15091  
surcharges—  
hearings, 17614  
message from the President, 16154  
suspensions of investment credit and accelerated depreciation—  
hearings, 952  
law, 504  
summary, 4566  
legislative history, 2064  
report, 677  
Senate amendments, summary, 4568  
tax information for visitors to United States, 9600  
teaching taxes program—  
farm, 8221  
general, 8220  
teacher's guide, 1149  
timber owner and his Federal income tax, 10161

# INDEX 1967

## Income tax—Continued

- treatment—
  - aged persons, revise, hearings, 7763, 10684
  - casualty losses attributable to major disasters, report, 7694
  - certain straddle transactions, report, 2024
  - exploration expenditures in case of mining, report, 650
  - treble damages under antitrust laws, make nondeductible, hearings, 7820
  - your Federal Income tax for individuals, 2415

## Inconel:

- alloy 718—
  - cryogenic fatigue data developed, 8472
  - materials data handbook, announcement, 17955

- Inconel X, high temperature vacuum fatigue testing with resonance-type machine, 11676

- Incremental procedure for solution of nonlinear problems with applications to plates and shells, 2727

- Incurvaridae, *see* Moths.

- Indebtedness, *see* Debt.

- Indecent publications, *see* Obscene matter.

## Indemnity:

- delayed delivery of registered mail, hearing, 9166
- milk payments to dairy farmers, extend—law, 16140
- reports, 14981, 15088

- Independence County, Ark., water resources, 14181

- Independence National Historical Park, Deshler-Morris House, general information, 6979

- Independence quadrangle, Calif., stratigraphy of Paleozoic formations, 2364

- Independent health insurance plans in U.S., 1965 survey, 2870

- Independent offices, *see* Government offices.

## Index-digests:

- Civil Aeronautics Board, cumulative, economic cases, 8970
- Subversive Activities Control Board reports, 5563

- Index numbers, *see* subjects, e.g., Wages.

## Indexes:

- AMC publications and blank forms, 95, 5721, 1025, 13289, 15927
- animal research in psychopharmacology, 7083

- armed services papers, 2041

- Atomic Energy Commission news release, 13312

- bibliography of medical translations, annual, 14526

- catalog of investment information and opportunities, 1150, 3079-80, 14208

- Civil Defense Office publications, 196, 7527, 16054

- code of Federal regulations, 12515

- Commerce Department publications, 1965 supplement, 4454

- compendium of shock wave data, 5793

- congressional committee hearings, Jan. 3, 1963-Jan. 3, 1967, 13472

- congressional record—

- daily, 3132
- 89th Cong., 1st sess., bound volume, 9029

- Court of Claims cases decided, v. 160-171, 970

- Defense Department, specifications and standards, 13920, 15188
- supplements, 3412

- Defense Supply Agency publications & forms, 3195

- design manual, cumulative, change, 2766

- diabetes literature, 3203

- cumulative edition, 14621

- digest of public bills and resolutions, 3206

- Federal register, 3313

## Indexes—Continued

- Federal specifications and standards, 6335
- supplements, 3409

## Federal supply classification—

- alphabetic index, supplements, 3323
- numeric index, 3322

- Federal tax returns, forms, and publications, 12647

- Geniostoma, in New Hebrides, Fiji, Samoa, and Tonga, studies, 17048

- Government-wide index to Federal research & development reports, 3381

## hearings—

- NASA, 1968 authorization, 13714

- population crisis, 16416

- Immigration and Naturalization Service, administrative decisions, 11212, 14193

- index-digest of Interior Dept. decisions, 3430

- index medicus, 3407

- cumulated, 6940

- internal security act, etc., administration, investigation, hearings and reports, 15168-169

- KWIC, journal of Health Physics Society, 15694

- manuscript and revised printed opinions of Supreme Court in National Archives, 14512

- Maritime Administration, Maritime Subsidy Board, National Shipping Authority, current regulations, 11343

- medical and veterinary zoology, 15

- mental health evaluation, bibliographic index, 5421

- military periodicals, Air University Library, 3014

- Le Monde, 3411

- NASA management issuances, 11395, 15496

- NASA tech briefs, 11427, 16931

- National Institutes of Health library translations, 1966 supplement, 15700

- Naval Training Device Center publications, 2783

- Navy officer classifications manual, 7014

- nuclear science abstracts, 3647

## cumulative—

- corporate authors, 12024
- report number, with public availability citations, 7440

- subjects, 15971

- nuclear science, conferences, 127

- Oak Ridge National Laboratory, master analytical manual, 7428

- OAR index of research results, 17342

- patents, 1966—

- list of patentees, 11686

- subjects of invention, 11687

- pesticides documentation bulletin (periodical), 3683

- photonic data, supplement, 17034

- plastics, technical conference papers, 17702

## President's papers—

- Jackson, Andrew, 6623

- series, 6623

- proceedings of National Museum, 14546

- progressive fish-culturist, cumulative subject and author index, 1081

- radiobiology bibliographies, 13343

- regulations published in Sbirka zakonu CSSR during 1966, Czechoslovakia, 15423

- renegotiation rulings and bulletins, 15721

- reports, Armed Services Committee, House, 4522

- Russian accessions, Library of Congress, 3575

- Russian drugs, 8534A

- scientific and technical aerospace reports, 3851

- Social Security Administration, 1966 research and statistics notes, 7121

- La Stampa and La Stampa sera, 3410

Indexes—Continued

technical conference papers on plastics, 981  
 trademarks, 10021  
 transport economies, monthly comment, 9605  
 understanding the atom series, 17409  
 United States code, 13473  
 vegetative key to some common Arizona range grasses, 11141  
 Veterans Administration publications, 2961, 17282  
 water pollution control research and training grants, 1965 publications and reports, 11071  
 weather stations, 17077

Indexing:

messages and documents, manual and automatic, evaluation, 4166  
 technical thesaurus, manual for building, 4677  
 water resources research and development, vocabulary, 2398

Indexing (machine work):

nonmagnetic, explosive actuated indexing device, 11496

India:

accessions list, Library of Congress American Libraries Book Procurement Center, New Delhi, 3416  
 agricultural commodities, agreements, 1035, 2935, 7180, 11848, 11860  
 cotton textiles, trade agreement, 8730  
 economic development projects, planning and surveillance by AID, GAO report, 16669  
 food to stave off threat of famine, proposal that U.S. join international effort to help, message from the President, 5996  
 foreign trade regulations, 9014  
 investment guaranties, agreement, 2909  
 labor law and practice, 8300  
 market factors, 17477  
 mineral industry, minerals yearbook chapter, 8352  
 power plants, Soviet studies, 6525  
 relieve hunger victims, U.S. participation—  
     hearings, 7792, 9138  
     law, 9037  
     reports, 7783, 9083, 9085  
 sailing directions, west coast, 17073  
 selling in India, 4438  
 trade in cotton textiles, agreement, 8741, 13150  
 U.S. travelers, you can assist U.S. balance of payments, 11887

Indian Affairs Bureau:

appropriations, 1968, hearings, 7734  
 downdraft (periodical), 12634  
 elementary teacher, examination announcement, discontinuance notice, 1921  
 employment opportunities for elementary teachers, examination announcement, 1922  
 field and central offices, directory, 3210  
 Indian education, inquiry into transfer of responsibility to Education Office, 13879  
 need to resolve differences in procedures used by Federal timber management agencies in appraising timber offered for sale, GAO report, 4871  
 new series of publications about Indians from Florida to Alaska, announcement and order form, 14615  
 press releases, 3736  
 programs, briefing session, hearings, 10655  
 progress report, 12635  
 records, preliminary inventory, 14506  
 Indian Arts and Crafts Board, fact sheets, 12639-640

Indian Claims Commission:

appropriations, 1968—  
     hearings, 7734  
     law, 12170  
     reports, 10560, 10766  
 termination date, extend, and expand membership—  
     hearings, 6113, 10656  
     law, 9039  
     reports, 9096, 9110, 9267

Indian Claims Commission for Alaska, appropriations, 1968, hearings, 9302

Indian Health Division, pediatrics residency program, 1570

Indian lands:

heirship problems, amend law, report, 15116  
 Interior Department decisions, 3426  
 long-term leasing act—  
     amend extending terms, etc., report, 15078  
     amend rel. to—  
         Gila River Reservation, report, 12243  
         Hualapai Reservation, report, 12244  
         San Carlos Apache Reservation, report, 12261  
*see also* names of Indian tribes or reservations.

Indian Ocean:

atlas of interpolated values of depth, salinity, etc., 15624  
 caligid copepods parasitic on sharks, 6958  
 islands for defense purposes, availability, agreement with Great Britain, 11846  
 lights and fog signals, list, changes, 5332, 9973, 14579  
 notice to mariners, 3641  
 portunid crabs, Smithsonian collections, 8540  
 radio navigational aids, changes, 7006, 11647, 17075  
 radio weather aids, changes, 2272, 8573, 11648, 17076  
 south, sailing directions, change, 14575  
 tide tables, 14875  
 water masses, variability, 11630  
 water, measurement of propagation velocity of elastic oscillations in surface layer, 36th cruise of USSR experimental ship Vityaz, 15353  
 western—  
     bathypelagic calanoid copepods, 8548  
     seabirds, pelagic distribution, 14534

Indian reservations:

offenses, committed by Indians, amend U.S. Code, law, 421  
 water supply of Indian reservations (series), 6409, 17829  
*see also* names of reservations.

Indian schools, title 1 activities under elementary and secondary education act, 12634

Indiana:

area measurement reports, 5810  
 census of agriculture, 1964, State and county statistics, 12091  
 census of manufactures, 1963, area statistics, 1838  
 census of mineral industries, 1963, area statistics, 5826  
 climatological data, 3096  
 county business patterns, 1861, 13371  
 electric rate book, 2249  
 mineral industry, minerals yearbook chapter, 6651  
 precipitation data, hourly, 3401  
 Indiana Dunes National Lakeshore, establish. law, 12162  
 Indiana University, mass spectrometer, duty-free entry, 7652, 14888, 16356  
 Indianapolis, Ind., area wage survey, 8314

Indians:

adult vocational training, appropriations, increase report, 15079, 16283  
 affairs, 1966, progress report, 12635  
 Alaska, general information, 2389

# INDEX 1967

## Indians—Continued

- anthology of poetry and verse, 4911
  - appeals, Interior Department decisions, 3428
  - arts and crafts, sources, list—
    - individuals, 12640
    - organizational, 12639
  - children education, etc., study, authorization, report, 15137
  - code of Federal regulations, 11038
  - constitutional rights, hearings and investigations, summary report, 12414
  - dental health program, 11724
  - dental services—
    - 1966 annual report, 2810
    - 1967, annual report, 18159
  - dentist in Indian health, 8627
  - education of children, extend authority for allocation of funds—
    - hearings, 7742, 9153, 12419, 17664
    - reports, 9118, 10557
  - education, quality, organizational location in Education Office or Indian Affairs Bureau, 13879
  - Federal facilities, 1967 report, 10805
  - addendum, 10804
  - Florida to Alaska, new series of publications, announcement and order form, 14615
  - Fort McDermitt, grazing reserve—
    - law, 17552
    - report, 15112
  - good day at Rough Rock, giving education back to Indians, 9400
  - governing bodies of Indian groups under Federal supervision, list, 15321
  - Great Lakes area, general information, 2390
  - health and sanitation programs, briefing, hearings, 10655
  - health program—
    - Public Health Service—
      - nurses, examination announcement, 10436
      - discontinuance notice, 10423
      - reporter to the 1st Americans, 11761
  - Indian leader (Haskell Institute periodical), 3417
  - Indian School journal (periodical), 3418
  - Indian-State relations in their historical perspective (address), 15322
  - Industrial development, program, 2388
  - Lower Plateau States, general information, 6437
  - nursing careers among American Indians, 18184
  - offenses committed in Indian country, amend U.S. Code, law, 421
  - publications, price list, 15671
  - revolving loan fund, amend law, report, 642, 15116
  - services for Indians, 16517
  - VISTA serves American Indians, 6168
  - war on poverty, examination, hearings, 12420
  - see also names of reservations or tribes.
- ## Indicators:
- patent classification definitions, 17105
  - system provided complete data of engine cylinder pressure variation, 5200
- ## Indium:
- determination of lead in, 9985
  - in magnesium-base alloys, determination, 9985
- ## Individuality:
- naval training equipment and individual differences, study, 9980
  - whatever happened to the individual? (address), 10319
- ## Indonesia:
- accessions list, Library of Congress American Libraries Book Procurement Center, Djakarta, 3419
  - agricultural commodities, agreement, 5541, 7154

## Indonesia—Continued

- agriculture, 9393
- Aidit's flight following Sept. 30 movement, 12679
- atomic energy, cooperation for civil uses, agreement, 7165
- background notes, 8708
- capsule facts for Armed Forces, 8874
- health information for travel, 13078
- military assistance for civic action program, agreement, 13154
- mineral industry, minerals yearbook chapter, 6652
- Inducers, pump, bubbleless, performance in water and liquid nitrogen, 6860
- Induction furnaces, tungsten insulated susceptor cup eliminates contamination, 5211
- Induction heating, see Heating.
- Inductors, RF inductor has higher Q, stable at higher temperatures, 9861
- Industrial accidents, see Accidents.
- Industrial arbitration, arbitration and N.L.R.B., 2d look (paper), 6937
- Industrial arts:
  - instruction, financial assistance guidelines under NDEA, 13956
  - national defense education act, institutes for advanced study, summer 1967, handbook for directors, 1003
  - secondary school, model spacecraft construction units, 2594
- Industrial College of Armed Forces:
  - catalog, 11240
  - correspondence courses—
    - management in Department of Defense, information booklet, 9607
    - offered on national security management, information booklet, 2422, 7863
  - correspondence school, program of studies, 9606
  - information manual, 6477
  - monograph series, 9608, 16731, 17858
  - National Security Seminar—
    - presentation outlines and reading lists, 2423, 15342
    - prospectus, 11241
  - perspectives in defense management (periodical), 12658
- Industrial diseases, see Occupational diseases.
- Industrial engineering technicians, examination announcement, 13445
- Industrial health, see Health.
- Industrial homework, see Home labor.
- Industrial hygiene, see Hygiene.
- Industrial instruments, exports, 1958-66, analysis, 15983
- Industrial machinery, see Machinery.
- Industrial management:
  - management aids for small manufacturers, 2854
  - methodological instructions for industrial enterprise change-over to new planning system, USSR study, 1169
- Industrial molasses, see Molasses.
- Industrial noise, guide to its evaluation and control, 17152
- Industrial plants, see Plants (Industrial).
- Industrial production, see Production.
- Industrial relations:
  - bibliography, Labor management relations act, 1947, as amended by Labor-management reporting and disclosure act, 11599
  - economic progress through improved labor-management relations (remarks), 5957
  - Industrial democracy, millions of ballots for, 6938
  - labor-management relations—
    - field examiner, career with National Labor Relations Board, 2748
    - paradoxes (remarks), 18088
    - selected readings and references, 11294
  - labor management reporting and disclosure act, summary of operations, 6598
  - lawyer's role (remarks), 14525

**Industrial relations—Continued**

- national labor relations act, amend—  
hearings, 728, 10648, 15025  
report, 10576
- publications, Hst, 3623
- purchaser and labor contract, escalating  
theory (address), 15596
- Taft-Hartley act, 20 years after, major  
developments (address), 9949
- 25 millionth vote, milestone in industrial  
democracy (remarks), 6939, 8532
- unfair labor practices, case developments,  
report, 3799
- Industrial safety, *see* Safety of life.
- Industrial waste, *see* Waste products.
- Industrial workers, *see* Labor.
- Industries, *see* Industry—also names of  
industries.
- Industry:  
air pollution, responsibility in controlling  
(address), 8636
- American—  
funds for research and development,  
1965, preliminary report, 5325  
impact of imports, procedures to relieve,  
hearings, 16323  
standard industrial classification (SIC)  
used by Census Bureau system  
(address), 181
- America's industrial manpower require-  
ments, 1964-75, study, 6603
- and education cooperate in scientific re-  
search, USSR, 8251
- are planning and regulation replacing  
competition in new industrial state?  
16438
- Atlantic industrial community looks to the  
future (remarks), 10451
- basic research, applied research, and de-  
velopment in industry, 1964 survey,  
final report, 2761
- Bulgaria, industrialization over 2 decades  
reviewed, 15424
- classification manual, 8922
- Continental Shelf, industrial research  
problems, USSR study, 8278
- current industrial reports, 3169-70, 3540,  
4322-47, 5853-76, 7478-82, 8938-48,  
10352-359, 12067-83, 13386-397,  
14825-830, 15990-16007, 17429-437
- announcement and order form, 4325,  
8948
- cybernetics in industry, USSR study, 6537
- defense industry bulletin (periodical),  
3193
- descriptions, 14817
- economic and technical information on  
typical industries, guide, 15341
- electronic and precision equipment, East  
European, translations, 3955
- impact of pollution abatement regulations  
(address), 1580
- Indian industrial development, program,  
2388
- industrial characteristics of workers, af-  
filiations by age, race, class of work,  
etc., census of population, 13403
- industrial outlook, 1828
- industrial work, levels of illumination for  
various kinds, student references, 9731
- industry and universities strengthen co-  
laboration, USSR study, 6559
- industry reports, 3092, 3139, 3147, 3150,  
3588, 3770, 3788
- interindustry labor mobility in United  
States, 13119
- interindustry relationships, potential de-  
mand, etc. 1970 projections, 2508
- machinery industries, East European,  
translations, 3956
- memorandum to industry, civil defense  
movie, announcement, 10407
- meteorologists in service, Hungarian,  
12717
- new patterns of industry-Government  
partnership in coming decade, (ad-  
dress), 4429

**Industry—Continued**

- nonagricultural, employment, hours and  
earnings, measurement, 16825
- Ozarks, rural industrialization case study,  
17711
- plans for progress program, 11298
- Post Office challenge, 10028
- premium pay provisions for weekend  
work, 5057
- profiles, 14813
- basic economic and technical data, etc.,  
accession notice, 11229
- reference materials, establishing and using.  
USSR study, 1346
- safety in industry—  
instructor outline—  
accident investigations and records,  
8291
- construction safety, site clearing,  
17887
- consultative approach for safety pro-  
motion, 16797
- fire and explosion prevention and pro-  
tection, 8295
- handling materials safely, 9681
- housekeeping for safety, 6599
- illumination for safety, 8296
- job hazard analysis, 14280
- personal protective equipment, 8298
- planning layout and arrangement for  
safety, 8292
- preventive maintenance for safety,  
8293
- promoting worker interest in safety,  
8288
- responsibility for safety, 8287
- safe working surfaces, 8294
- safety inspection procedures, 8290
- safety organization, 8289
- use of color for safety, 8297
- maritime safety data for shipyards,  
shipboard ventilation for hazardous  
atmospheres, 8299
- State-local taxation and industrial loca-  
tion, interrelationship, 15823
- travel attraction for tourists (remarks),  
1959
- TVA area, development, 14706
- USSR development, translations—  
automotive and tractor industry, 4015
- chemical industry and machinery, 4016
- construction, construction machinery,  
and building materials, 4017
- electric power, power machinery, and  
electrical equipment, 4018
- electronics and precision equipment,  
4019
- metallurgy and minerals, 4020
- metalworking equipment, 4021
- precision equipment, 4022
- USSR light, economic reforms, results,  
5009
- USSR, translations—  
current developments, 4013
- general information, 4014
- wage and union scale studies, 1955-66,  
directory, 5072
- wage survey—  
communications, 6604
- fertilizer manufacturing, 12774
- hospitals, 15448
- industrial chemicals, 2502
- laundry and cleaning services, 14298
- motion picture theaters, 11330
- synthetic fibers, 8317
- women's and misses' dresses, 6613
- wool textiles, 15446
- see also* Manufactures and manufac-  
turers—  
also names of industries.
- Industry manpower surveys, 17729
- Inelastic electron scattering, *see* Scattering.
- Inert gases, *see* Noble gases.
- Inertia, moments of, *see* Moments of inertia.



# INDEX 1967

## Inertial guidance :

alignment of inertial systems on moving base, 16976  
sensor testing, limitations produced by test platform vibrations, 1492

Inertial navigation, *see* Navigation.

Inertial systems, *see* Inertial guidance.

Infant feeding, *see* Infants.

Infantry, your career, 5731

## Infants :

casefinding, developmental approach, with reference to cerebral palsy, mental retardation, and related disorders, 10403  
community infant formula services, minimum sanitary standards, 15698  
mortality in—

Norway, problems, 17167

Scotland, 5466

United States, and 6 West European countries, international comparison, 8659

parents and babies, note to agents, 4764

rescue breathing, general information, 5461

## Infection :

control, environmental aspects of hospitals, 8635

infectious process, pathogenesis, experimental therapy, USSR studies, 6573

tumor and infectious virus interaction, quantitative aspects, USSR study, 6580

Infectious anemia, *see* Anemia.

Infectious diseases, *see* Contagion and contagious diseases.

Infestation characteristics of balsam woolly aphid in Pacific Northwest, 4852

## Inflammable materials :

flammability—

in unusual atmospheres, materials in hyperbaric atmosphere containing oxygen, nitrogen, and/or helium, preliminary studies, 11675

properties of hydrocarbon fuels, 17094

plywood surface effect of panel thickness and noncombustible inserts, 8064

Inflation, passive geodetic satellite inflation rate study, 8426

## Inflation (finance) :

ideology and inflation, implications of price and wage trends for national stabilization policies (remarks), 15249

restoration of investment credit and accelerated depreciation allowance—

hearings, etc., 7764, 7804

law, 12168

legislative history, 13719

message from the President, 9063

reports, 7711, 7713, 9271, 10614

suspensions of investment credit and accelerated depreciation—

hearings, 952, 7764

law, 504

summary, 4566

legislative history, 2064

report, 677

Senate amendments, summary, 4568

Influenza, health information series, 7068

Informacion sobre jornales, 8845

## Information :

scientific and technical information (USSR periodical), 3852

*see* Public information.

Information and the nervous system, 14250

Information bulletins, *see* names of departments, etc., issuing bulletins.

Information Center on Nuclear Data, bulletins, 5763, 12000

Information centers, *see* Information services.

Information input and fixation in human memory during natural sleep, 11285

Information Office, Agriculture Dept. :

appropriations, 1968, hearings, 10629, 12397

congressional list (series), 8206

## Information services :

Atomic Energy Commission, specialized information centers, directory, 1814

FAA handbook, 10979

federally assisted programs, study system to aid in participation, hearings, 4639

information center for electrical equipment, USSR, 15377

library and information science research program, 7901

public welfare agencies, 10134

resources in U.S., directory, Federal Government, 15458

scientific and technical—

information dissemination, national and international developments, 3853

reference materials, establishing and using in research, design, and industrial operations, 1346

USSR, Leningrad Information Bureau, services for technical progress, 6513

Information storage and retrieval systems :

analysis of interpreter-computer reporting techniques, 7403

Army scientific & technical information program, 13306

automated address coding guide and data retrieval series, 16028

coding and keypunching, geological information form for core, grab, and dredge samples, instructions manual, 6997

colleges and universities, systems for measuring and reporting resources and activities, 17058

criminal intelligence data system, annual report to Congress, require, reports, 13670, 13685

data retrieval system provides unlimited hardware design information, 11484

documentation sponsored by NSF, price list, 6916

evaluation of user reactions to prototype on-line information retrieval system, 17945

image interpreter reference and auxiliary information, 4226

Labor Statistics Bureau system, search statement manual, 15436

master control data handling program uses automatic data input, 16940

message retrieval systems, manual and automatic, laboratory evaluation, 4166

move the information, kind of missionary spirit, trends, in processing and education, 14766

National Institute of Neurological Diseases and Blindness, neurological information network, 15699

needed, international system for evaluated compressed scientific and technical knowledge (address), 10457

nonconventional-scientific and technical information systems in current use, descriptions, 11623

problems of Soviet science, 2427

request oriented information selection program, 8506

scientific and technical information, single and united system construction, USSR study, 9646, 9675

scientific information retrieval system for research grants, Radiological Health Division, 7064

solid system compression, numeric and alphanumeric, 14519

SPAD formatter, buffer interface between satellite prediction computer and display, 8593

urban planning information system, 11207

weather forecasting, human processing of information, 8862

## Information theory :

cybernetics in service of Communism, USSR studies, 12742

physico-chemical modeling of information processes, USSR study, 1272



- Information theory—Continued**  
 problems of information transmission (USSR periodical), 3772  
 quantum effects in information transmission systems, 18057  
 relationship of entropy and quantity of information, USSR study, 14247
- Informational media guaranty program:**  
 financing—  
   hearing, 10834  
   report, 10767
- Infrared Acquisition and Tracking System,**  
 Apollo aircraft, infrared equipped for re-entry tracking, navigation accuracy, 1507
- Infrared beamsplitters, see Beamsplitters.**
- Infrared lamps, brooding chicks, 15857**
- Infrared rays:**  
 absorption of intense bands of  $H_2O$ ,  $D_2O$  and  $CS_2$ , measurements, 1550  
 airborne infrared mapper as tool for detecting and measuring fires, 8106  
 atmospheric transmission, from 2-5 microns for slant paths from 35,000 ft. to upper limit of atmosphere, survey, 12931  
 detector, use of twin helix system to produce fast scan, 6800  
 flux from air to underlying surface, 2972  
 handbook of military technology, 8584  
 horizon definition, state-of-the-art report, 8416  
 horizon profiles from meteorological data inputs, synthesis of 15u bands, 9801  
 horizon radiance profile variations over range of meteorological, geographical, and seasonal conditions, 8418  
 IR vidicon scanner monitors many test points, 15545  
 outgoing infrared radiance from planetary atmosphere, theoretical computations, 14457  
 passive infrared acquisition and tracking system analysis, 5177  
 reflectances of metals at cryogenic temperatures, 6922  
 spectrometric techniques and spectral-structure correlations, 6631
- Infrared spectral transmissions, see Transmittances.**
- Infrared spectrophotometry, see Spectrophotometry.**
- Infrared spectroscopy, see Spectroscopy.**
- Infrared spectrum, see Spectra.**
- Ingots, see names of metals.**
- Ingram, William Marcus, biological field**  
 investigative data for water pollution surveys, 1073
- Inhalation, anesthetization of small laboratory animals, apparatus, USSR study, 1288**
- Inheritance and transfer tax:**  
 career opportunities, estate tax examiner, 2404
- IRS looseleaf regulations system, 3526**  
 returns, estimate of personal wealth, 15336
- Inheritance (biology), see Heredity.**
- Inhibition, aromatic L-amino acid decarboxylase by decarborane, 14775**
- Inhibitors, organophosphorus, anticholinesterase activity, determination, USSR study, 1168**
- Inhomogeneous gases, see Gases.**
- Iniskin-Tuxedni region, Alaska, geology, 8163**
- Injections:**  
 and suction in equilibrium dissociating air, stagnation-point boundary layer, 8499  
 gaseous-film cooling of rocket motor, 6882
- Injectors, M-1 engine subscale, tests, 12959**
- Injuries:**  
 acute conditions, incidence and associated disability, July 1965-June 1966, in U.S., 14637  
 coal mines, monthly report, 3098  
 conference on trauma, report, 7087  
 firearms, etc., mandatory reporting in D.C., provide law, 480
- Injuries—Continued**  
 fuel industries, minerals yearbook chapter, 2536  
 injury potentials of light-aircraft instrument panels, 1820  
 metal and nonmetal industries, minerals yearbook chapter, 8338  
 metallic mineral industries, 1961-63, injury experience, 11355  
 mineral industries—  
   minerals yearbook chapter, 2537  
   work injury experience, 8342, 15465  
 nonmetallic mineral industries, 1961-63 experience, 9756  
 oil and gas industry, 16851  
 rates—  
   how to compute, 9701  
   manufacturing industries, 3422  
   recording employee injuries, 9714, 16805  
 work injuries—  
   and accident causes in school lunchrooms, 14282  
   and work injury rates, heavy construction industry, 17890  
   concrete brick and block industry, 16813  
   see also Accidents—Employers' liability and workmen's compensation.
- Ink, Dwight, remarks, Sept. 18, 1967, 17842**
- Inland waterways:**  
 inland seas, what will happen to them, USSR study, 8244  
 rules concerning sailing vessels, etc., law, 468
- Inlets, see Air inlets (aircraft).**
- Inman, Robert M.:**  
 heat-transfer analysis for liquid-metal flow in rectangular channels with heat sources in fluid, 6883  
 theoretical investigation of turbulent liquid-metal heat transfer in channels with heat sources in fluid, 1499
- Inner space, sea of opportunity, 6186**
- Inner tubes:**  
 automotive, savings through use of formal advertising in contracting by GSA, GAO report, 9557  
 excise tax, impose at manufacturer-owned retail outlet—  
   law, 360  
   report, 2094
- Federal item identification guides for supply cataloging, supplements, 3285**
- pneumatic tire, Federal item identification guide, 15185**
- Innovations, technological, see Technological innovations.**
- Inoculation, legume, what it is, what it does, 14739**
- Inorganic compounds:**  
 current industrial reports, 3169  
 foam fractionation of inorganic solutions, 12642  
 technical grade, military standards—  
   aluminum ammonium sulfate through barium peroxide, 15193  
   strontium nitrate through zinc oxide, 15194
- Inouye, F. T., application of alloy 718 in M-1 engine components, 12862**
- Input admittance of rectangular waveguide-fed aperture antenna radiating into inhomogeneous lossy dielectric slab, 18028**
- Input-output analysis, see Linear programming.**
- Input-output table of social product, USSR, 1239**
- Insect pests, see insects.**
- Insect repellents, materials evaluated at Orlando and Gainesville, Fla., 14736**
- Insect traps:**  
 blacklight traps, development for European chafer surveys, 7303  
 electric, large-scale field evaluation to reduce bollworm populations in Reeves County, Tex., 11915

**Insect traps—Continued**  
 wasps and bees, trap-nesting, life histories, etc., 8685

**Insecticides:**  
 aerial application, I-V, problems, 17410  
 candidate materials evaluated, Brownsville, Tex., 13196  
 effectiveness, Soviet experimentation, 4978  
 insect control on crops, livestock, etc., suggested guide, 10162  
 materials evaluated at Orlando and Gainesville, Fla., 14736  
 residues on forage crops, results of analyses, 8803  
*see also* Dusts and dusting—*also* names of insecticides.

**Insects:**  
 affecting sweetpotatoes, 15837  
 collection and preservation, 10182

**control—**  
 farm stored wheat, 4112  
 flowers, 17307  
 home vegetable garden, 10171  
 pecans, 1679  
 strawberry, 10167  
 cooperative economic insect report, 3148

**damage to—**  
 corn at harvest time and in farm storage in 3 southeastern States, 14751  
 shelled corn in small bins, evaluation of malathion, synergized pyrethrum and diatomaceous earth as protectants, 36  
 western forests, aerial photographic techniques for estimating, 14078

**destructive Alaska forest insects, identification, 14085**  
 disease carriers, 11730  
 evaluation of malathion, synergized pyrethrum, and diatomaceous earth as protectants against insects in sorghum grain, in small bins, 11933  
 finding hidden insects, student or classroom science project, 4135  
 forest, conditions in—  
   Pacific Northwest, 8053  
   United States, 9528  
 impact in northern hardwoods type, 2304  
 inert dusts as protectants for wheat in small bins, evaluation, 8835  
 injurious, in eastern United States, protecting log cabins, rustic work and unseasoned wood from attack, 5627  
 insect enemies, find and report, 10191  
 intercepted plant pests, list, 7250  
 m m layers for evaporation control of water, effect on insects, 7102  
 outbreaks in Oregon and Washington, 2291, 17797  
 publications, price list, 5416  
 quarantine notices under Plant quarantine act, P.P.C. series, 3667  
 trapping with light, student or classroom science project, 4136  
 two new sucking insect pests of seed in southern pine seed orchards, 15283  
 vascular plant associational studies, bibliography, 8804

**Insolation, limits initial establishment of western larch seedlings, 14088**

**Inspection (industrial):**  
 how to inspect charts—  
   bag sewing operations, 9688  
   bench and floor stand grinder, 9686  
   cupola, 9689  
   demolition operations, 9693  
   HTIC LS series, 9684-95, 11308  
   effective use suggestions, 11307  
   radial saw, 9685  
   scaffold construction (light duty), 9690  
   table saw, 9687  
   textile industry, weaving, 9691  
   tractor loader, 9684  
   tubular steel frame scaffold, 9694  
   tubular steel tube & clamp scaffolding, 9695

**Inspection (industrial)—Continued**  
 how to inspect charts—*continued*  
   vener lathe, 11308  
   wood shaper, 9692  
 inspecting for safety, 16803  
 occupational safety aid, 9702  
*see also* names of articles, etc., inspected.

**Inspection (military):**  
 interagency ground inspection manual, 16559  
 machinery, piping and pressure vessels for ships of Navy, military standard, 2154  
 sampling inspection guide, quality and reliability handbook, 10902  
*see also* Military supplies.

**Inspection services:**  
 Agriculture Dept., user charges, authorize, hearing, 15146  
 U.S. Government, directory, 14048  
 Inspector General, Agriculture Dept., appropriations, 1968, hearings, 10629, 12397

**Inspectors:**  
 agricultural, outwit foreign pests, 4138  
 FDA inspectors, career information, 11094  
 plant quarantine—  
   and plant pest control, examination announcement, 211  
   examination announcement amendment, 12100  
 poultry, handbook, 13889  
*see also* types of inspectors.

**Installations (military):**  
 administrative facilities, Navy Dept. design manual, 17065  
 Air Force, communications-electronics activities, commercial services, manual, 4164  
 airfield and heliport pavement evaluation concepts, emergency construction, 7392

**Army—**  
 continental U.S., list, 14795  
 facilities, basic criteria and construction standards, technical manual, 10270  
 change, 4213  
 Army and Air Force, water supply and treatment, technical manual, 109  
 Army National Guard program, operating procedures, 6935  
 civil post offices, adequacy, 16338  
 construction appropriations, 1967—  
   law, 457  
   supplemental—  
     hearings, 7799  
     law, 9035  
     reports, 6087, 7665, 7667, 7673  
 construction appropriations, 1968, hearings, 13695, 15016, 16305, 16395, 17637  
 construction authorization, 1967, report, 623  
 construction authorization, 1968—  
   law, 17555  
   reports, 13684, 13688, 16284, 16371  
 courier station design, technical manual, 13301  
 defense disposal manual, changes, 6146, 7553  
 disposal of U.S. installations in France, report, 7769  
 drainage for areas other than airfields, emergency construction, Army technical manual, 111  
 emergency construction roads, streets, walks, and open storage areas, general provisions and geometric design, technical manual, 5742  
 engineering weather data for heating and air conditioning design, etc., Army, Navy, and Air Force manual, 11947  
 family housing occupants, telephone service, methods used to provide, Defense Dept., GAO review, 6383  
 homeowners losses incident to closing, assistance—  
   authorization, 1967—  
     hearings, 7796, 9147  
     reports, 9277, 10564, 10572

- Installations (military)—Continued  
homeowners losses incident to closing, assistance—continued  
authorization, 1968—  
hearings, 13695, 16395  
law, 17555  
reports, 13684, 13688, 16284, 16371  
land operational facilities, Navy design manual, 14565  
manpower utilization in Far East and Western Europe, report, 9133  
military fields, instrument approach, procedure charts, 3555  
NATO common infrastructure program, U.S. participation, investigation, report, 2034  
naval relief of civilian employees, erroneously in receipt of wages, report, 4581  
naval shore facilities, definitive designs, 15619-620  
procedures manual for resource management, 7384  
ration breakdown point operations, technical manual, 15948  
signal construction battalion, field manual, 4205  
United States—  
disposal in France, report, 6109  
located in France, investment of military assistance funds, 9158  
Walter Reed Army Medical Center, construction authorization—  
law, 458  
report, 919  
Installations (naval), *see* Installations (military).  
Installment credit:  
auto loan characteristics at major sales finance companies, 7992  
automobile installment credit developments, 1960-66—  
seasonally adjusted data, 7994  
seasonally unadjusted data, 7995  
automobile installment credit developments (periodical), 7993  
commercial banks, holdings, monthly report, 3142  
consumer credit—  
at consumer finance companies, 3141  
monthly release, 3140  
consumer, slowdown, etc., 7997  
finance charges, require full disclosure and set maximum rates, hearings, 17594  
revolving credit provisions of truth in lending, hearing, 12402  
Installment credit, *see* Installment credit.  
Institute for Applied Technology Institute:  
annual reports, 9943, 18079  
programs and organization, 12986  
Institute for Basic Standards annual reports, 9943, 18079  
Institute for Earth Sciences, ESSA technical reports, IER-IES series, 16533  
Institute for Materials Research annual reports, 9943, 18079  
Institute for Oceanography, programs and mission, 16537  
Institute for Telecommunication Sciences and Aeronomy:  
ESSA technical memorandum, IERTM-ITSA series, 7935  
ESSA technical reports, IER-ITSA series, 2223-25, 4748, 6223-25  
ionospheric predictions (periodical), 3446  
Institute of Food Technologists, 25th annual meeting, Kansas City, Mo., 1783  
Institute of Oceanology, USSR, 20th anniversary, 9622  
Institutes for Environmental Research:  
ESSA technical memorandums—  
IERTM-ATDL series, 9427  
IERTM-ITSA series, 7935  
IERTM-NSSL series, 6220-22, 10964-966, 15231, 16532  
Institutes for Environmental Research—Con.  
ESSA technical reports—  
IER-IES series, 16533  
IER-ITSA series, 2223-25, 4748, 6223-25  
Institutional assistance grant program, spring 1967, 16502  
Institutions:  
eastern and midwestern, milk consumption and food service patterns, 11935  
eligible under National vocational student loan insurance act of 1965—  
list, 2181  
supplement, 6181  
for aged and chronically ill, charges for care, 17169  
investment of institutional funds in FHA insured mortgages, 12626  
USSR—  
educational institutions, development, 1227  
scientific research institute, cost accounting, 16786  
*see also* Child welfare institutions—  
Mental institutions.  
Instruction, *see* Education—  
Programmed instruction.  
Instructors, *see* Military Academy, West Point—Teachers.  
Instrument approach procedure charts, *see* Maps and charts.  
Instrument flight rules:  
aviation, air traffic patterns, 17740  
simulated IFR conditions, exposure of men to intermittent photic stimulation, 5802  
Instrument flying:  
attitude, Army technical manual, change, 1767  
handbook, 2284  
pilot examination guide, 6358  
supersonic transport departures, pictorial navigation display, simulator study, 12944  
Instrument landing, *see* Landing (aircraft).  
Instrument panels, *see* Panels and paneling.  
Instrumentation:  
analytical chemistry, survey, 16933  
determining courses of study, 1017  
developments, symposium, 17163  
for high energy physics, 1966 international conference, proceedings, 7419  
instrumentation and normal valves, biomedical monitoring during dynamic stress testing, 7343  
journal of research, National Bureau of Standards, 3460  
nearshore environment, by multipurpose data acquisition system, 16522  
pressure testing of instrumentation fittings portable fixture facilities, 11458  
radiochemical analysis, 2746  
reactor control systems based on counting and Campbell techniques, development program, 7422  
research of TVA Engineering Laboratory, 17260  
structures, Project Pre-Gondola, 17396  
Instruments:  
and laboratory equipment, Federal item identification guides for supply cataloging, supplements, 3289  
building (USSR periodical), 3451  
direction reference and three-axis attitude, has only one moving part, 6806  
electrical, shipments, 1960-65, analysis, 1826  
instrument automatically selects peak acceleration signal from several accelerometers, 1459  
low cost instrument to measure temperature or resistance accurately, 11127  
marine research, methods, USSR study, 6501  
panel, and control devices for automotive vehicles, Federal standard, 6317

## Instruments—Continued

- selected instruments and related products, 1965, current industrial reports, 5872
- see also* names and types of instruments.
- Insulation:**
  - ceramic, and insulating materials, properties, USSR study, 16755
  - cryogenic, inexpensive replacement for vacuum jacketed line, 16877
  - cut-through tester accurately measures insulation failure rates, 17966
  - electrical insulators, classification definitions, 18128
  - multilayer systems for temperature to 700° K, performance, 17943
  - panel thickness and noncombustible inserts effect on surface flammability of plywood, 8064
  - Teflon insulated wire, technique for stripping, 8471
  - tester automatically checks insulation of conductors in cables, 14369
  - thermal—**
    - conductivity probes for insulations, 4201
    - cryogenic application, 17953
    - Federal item identification guide, 13917
  - wire—**
    - and cable, current industrial reports, 5865
    - mechanical properties automatically determined, 17981
  - see also* Heat shields—Soundproofing.
- Insulators:**
  - electrical, Federal item identification guide, 17695
  - thermocouple-flexible cable connector insulator is highly reliable, 8403
- Insurance:**
  - Canal Zone annual business report, 12032
  - contracts for medical care, recovery of excess funds accumulated, GAO review, 8145
  - facts for farmers, 11928
  - provide protection where reasonable rates not now available, hearing, 16402
  - riots or other civil disorders, insurance availability, hearing, 16402
  - see also* Reinsurance—*also* types of insurance.
- Insurance companies, *see* Life insurance companies.
- Insured banks, *see* Banks and banking.
- Insured loans, *see* Mortgages.
- Insured savings, *see* Banks and banking.
- Insurgency, Communist infrastructure in South Vietnam, organization and strategy, 13298
- Integral equations, *see* Equations.
- Integrals:**
  - Invariants—**
    - non-existence, new methods of celestial mechanics, 9921
    - periodic solutions of 2d type, new methods of celestial mechanics, 11561
    - tungsten resonance absorption, determination by activation, 18012
- Integrated circuits, *see* Circuits.
- Integration (mathematics):**
  - abscissas and weights for Gaussian quadrature, 5284
  - control equations and problem of small time constants, 8505
  - numerical—**
    - differential equations, engineering exposé, 1503
    - methods for computing gas flow in chemical nonequilibrium, 15568
    - ordinary differential equations, finite difference methods, operations unification, 11559
    - self-starting procedure simplifies, 6745
  - see also* Mathematics.
- Integrators, easily set and reset with electronic switch, 11464

## Intellectuals:

- ferment in Soviet Union, aspects, 4571
- USSR, aspects of intellectual ferment, study, print additional copies, report, 2098
- Intelligence (military science), *see* Military intelligence.
- Intelligence Operations Committee, Senate, create, report, 2090
- Intensity measurements of some fundamental absorption bands of H<sub>2</sub>O, D<sub>2</sub>O, and CS<sub>2</sub>, 1550
- Intensity of sound, *see* Sound.
- Interaction effects of control jet exhausting radially from nose of ogive-cylinder body at transonic speeds, 5237
- Interaction of solids colliding at high speeds, USSR, 16744
- Interagency Boards of U.S. Civil Service Examiners, directory, 14860
- Interagency Committee on Oceanography:
  - ICO informal report, 2241
  - ICO pamphlet series, 1042, 7956-57, 8682, 17752-753
- Interagency training programs, *see* Government officials and employees.
- Inter-American Development Bank:
  - appropriations, 1967, law, 405
  - appropriations, 1968, hearings, 15014
  - executive directors, election, modification, special report, 13552
  - participation, U.S.—
    - annual report, 12200
    - increase—
      - hearings, 10640, 10832
      - law, 17542
      - reports, 10607, 13675, 15102, 16244, 16252
      - special report, 13552
    - role in Latin American agricultural development (remarks), 10121
    - social progress trust fund agreement, protocol, 2913
- Inter-American republics, *see* American republics.
- Interdepartmental Committee for Atmospheric Sciences, ICAS report, 9450
- Interdepartmental Committee on Status of Women, annual report, 15323
- Interest (psychology):
  - interest check list, instructions for administering and using, 16516
- Interest and usury:
  - adjust deposit accounts of enlisted members for lost interest—
    - law, 451
    - reports, 686, 932
  - banking markets and interest rates, evidence on concentration in, 14040
  - compound interest tables for long-term planning in forestry, 13212
  - cost effects of commercial bank underwriting of municipal revenue bonds, 16592
  - debentures, Federal intermediate credit banks, delete interest rate limitation—
    - hearing, 707
    - report, 633
  - Government economic policy (remarks), 5574
  - insured banks paid on savings, maximum interest rates, regulation, extend act—
    - hearings, 17595
    - law, 17541
    - report, 13816
  - insured banks, temporary ceilings, report, 648
  - interest rates—
    - ceilings and future of residential financing (remarks), 7999
    - in capital markets, 6299
    - on business loans, revision in quarterly survey, 11059

Interest and usury—Continued  
 interest rates—continued  
   savings competition, and bank profitability (address), 11050  
 interest rates versus interest ceilings in allocation of credit flows (remarks), 4786  
 loans to World War I veterans upon security of adjusted-service certificates, cancel unpaid interest—  
   law, 449  
   report, 918  
 OASDI trust funds give additional interest earnings, provision of 1960, amendments, 7116  
 payment of interest on deposits, Federal reserve regulation Q, 6301  
 interest equalization tax act:  
   extend—  
     digest of testimony and statements—9176  
     hearings, 6047, 13859  
   law, 13539  
   legislative histories of P.L. 90-59 and P.L. 89-243, 15052  
   reports, 7670, 7708, 13689, 13823  
 interest rates, *see* Interest and usury.  
 Interfaces:  
   dynamics of cryogenic liquid experiments in orbit, 2608  
   interfacial behavior following termination of outflow in weightlessness, 8501  
   liquid, mass transfer through, mechanism, 8215  
   SPAD formatter, buffer interface between satellite prediction computer and display, 8593  
 Interferometers, sound speed by iterative reflection-interferometry, 9983  
 Interferon, formation in animal organism, characteristics, USSR study, 4989  
 Intergovernmental Affairs Council, National, *see* National Intergovernmental Affairs Council.  
 Intergovernmental Committee for European Migration, observations, findings, and recommendations, report, 14984  
 Intergovernmental Maritime Consultative Organization:  
   convention, amendments, text, 13725, 17233  
   3d extraordinary session, report of congressional delegation, 16234  
 Intergovernmental relations:  
   Census Bureau's program on Federal statistics for planning needs of State and local governments (paper), 10383  
   condition of American federalism, historian's view, 4638  
   elementary and secondary education act, administrative relationships, hearings, 17664  
   Federal role in urban affairs, hearings, 2117, 4640, 6111, 9316, 10841, 13865, 15157, 16412-413  
   print additional copies, reports, 10789, 13650  
   Federal system as seen by Federal aid officials, results of questionnaire, print additional copies, reports, 4597, 10585  
 Improving cooperation in management of Federal assistance programs, hearings, 4639, 13864  
 Intergovernmental cooperation act of 1965, hearings, 735  
 Intergovernmental cooperation act of 1967, hearings, 13864  
 Intergovernmental manpower act of 1967, hearings, 12409  
 Intergovernmental personnel act of 1967, hearings, 12409  
 Interlocal agreements and contracts handbook, information report, 8801

Intergovernmental relations—Continued  
 metropolitan America, challenge to federalism, study by Advisory Commission on Intergovernmental Relations, 2048  
   print additional copies, report, 10590, 10785  
   revenue sharing and its alternatives, what future for fiscal federalism?—  
     articles, 13546  
     hearings, 16149  
   study, authorization, report, 6074  
   urban development Intergovernmental awards program, 14187  
 Intergovernmental Relations, Advisory Commission on, *see* Advisory Commission on Intergovernmental Relations.  
 Intergranular metal phase increases thermal shock resistance of ceramic coating, 6811  
 Interindustry economics, *see* Linear programming.  
 Interindustry labor mobility in United States, 13119  
 Interior and Insular Affairs Committee, House:  
   accomplishments, 89th Congress, 4545  
   calendar, 3478  
   committee print, 4545  
   hearings, 2050-52, 4546, 7749, 9162, 10655-658, 12302-303, 13708, 15037-40, 17604  
   investigations and studies—  
     authorization, report, 6018  
     expenses, report, 7719  
   reports, 530, 625, 636, 642, 649, 2015, 4494, 4503, 7702, 7714, 7731, 9096, 9113-15, 9135, 10524-528, 10561, 10578-579, 12243-244, 12247, 12261-262, 12268, 12278, 13627, 13632, 13671, 13679, 14932, 14935, 14950, 14962, 14967, 14970, 14977, 14985, 15002-7, 16165, 16226, 16233, 16237-240, 16243, 16283, 16286, 16288-289  
   rules, 6039  
 Interior and Insular Affairs Committee, Senate:  
   calendar, 3497  
   committee print, 2124  
   hearings, 2123, 4643-44, 6113, 7811-15, 9318-23, 10851-855, 12410-413, 13868-870, 15160-164, 16417-418, 17624, 17656-657  
   Investigations and studies, authorization, report, 4623  
   reports, 783, 873, 875, 880, 881, 912-913, 2086, 4613, 6078, 7777-80, 9263-67, 9269, 9273, 10704, 10733-735, 10737-740, 10750-753, 10790, 12324, 12328, 12361-362, 12375, 13826-830, 13832, 13835-836, 15074, 15078-79, 15081, 15094, 15097, 15109, 15111-120, 15122-123, 15134, 17627, 17629-631  
 Interior Department:  
   America's department of natural resources, activities, etc., 2391  
   appropriations, 1967—  
     law, 403  
     supplemental, hearings, 2040  
   appropriations, 1968—  
     budget amendment, 10515  
     hearings, 7734, 9143, 9302, 16393  
   law, 12170  
   reports, 10560, 10766, 12252, 13678  
   code of Federal regulations, 12527  
   cooperative water resources, research and training, report, 6438  
   decisions, 3426  
   bound volume, 17845  
   contract appeals, 3427  
   index-digest, quarterly, 3430  
   Indian appeals, 3428  
   land appeals, 3429  
   develop production of fish protein concentrate, law, 415  
   investigate feasibility of water resource development proposals, reports, 2015, 12362, 16240

# INDEX 1967

## Interior Department—Continued

lands administered, classify for disposal or interim management under multiple use principles, law, implement, hearing, 10853

Library, list of accessions, 3509

management analyst development program, 9586

Missouri River Basin, progress, quarterly report, 3777

mobilization programs, hearing, 14916

nuclear power-desalting project, authorize—  
hearings, 7749, 7813  
law, 10487  
reports, 6078, 7731, 9125

nuclear power-desalting project in cooperation with AEC, authorize—  
law, 375  
report, 675

policies, programs, and activities, hearings, 10655

press releases, 3737

research contracts, authority to enter into—  
law, 390  
report, 880

role as it involves petroleum industry (remarks), 8208

saline water research and development progress reports, 1140, 2393-96, 4915, 6440-51, 8211-16, 9588-94, 11217-218, 12641-645, 14196-200, 15326-333, 16718, 17848-849

scientific programs, hearing, 17657

study control of jellyfish and other such pests—  
hearing, 4635  
law, 434  
report, 671

subjects, publications list, 7051

telephone directory, 17850

Under Secretary, nominations—  
Black, David S., hearing, 15161  
Luce, Charles F., hearing, 4644

Interlaboratory Technical Advisory Committee, report, routine surveillance of radioactivity around nuclear facilities, 7065

Interlocking directorates:  
commercial banks and interlocks among financial institutions, control staff report, 15018

communications carriers, applications, FCC rules and regulations, 3279

Intermediate credit banks, *see* Federal intermediate credit banks.

Intermountain Forest and Range Experiment Station:  
publications, list, 9532

publications on genetics and breeding of forest trees, 1921-65, bibliography, 4827

Intermountain region:  
Forest Service, yearbook, national forests in profile, 15280

iron and steel scrap, processing and marketing, 16855

national forest ski areas, Americas winter playground, 6372

vascular plants, checklist, 14125

Internal combustion engines, *see* Engines.

Internal Compton effect, 1430

Internal revenue:  
act of 1962, legislative history of H.R. 10650, 4564, 7760

act of 1964, legislative history of H.R. 8363, 756

code of Federal regulations, 6281-82, 6293-94, 7979-81, 7988, 8222, 9464-67, 11039-40, 11225

code of 1954, amend—  
hearings, 6047, 7763, 10684, 16408

laws, 360, 435, 452, 513, 1970, 16129, 16134

legislative history of H.R. 10650, 87th Congress, 4564, 7760

## Internal revenue—Continued

code of 1954, amend—continued  
reports, 702, 2022-2024, 2027, 2094, 2097, 2099, 7690, 7693, 7698, 9085, 9091, 15091-92

Senate amendments, summary, 4567

code of 1958, amend, law, 406

customs decisions, weekly report, 3977

internal revenue bulletin, 3431

index-digest quarterly system, 16722

semiannual cumulative, 1144, 12648

procedure and administration, IRS, loose-leaf regulations system, 1146, 4918, 6458, 12650, 14203-204, 15335, 17852

refunds and credits of taxes, report, 9057

*see also* names of certain taxes, e.g. Excise taxes.

Internal revenue agents, examination announcements, 16067, 16069

Internal Revenue Service:  
abuses by agents, charges, hearings, 15015

career and sense of purpose, 2399

career opportunities—  
digital computer systems trainee, 6454

estate tax examiners, 2404

internal auditor, 2405

international taxation, 8217

programmers, 6459

revenue agent, 1147

revenue officer, 2409

secretarial, in Washington, D.C., 11223

tax law specialist, 6463

tax technician, 1148

tax work, 2400

circulars, 2401-2

efforts against organized crime, hearings, 13706

excise tax exemption on beer and tobacco products for certain consumers, GAO review, 9554

executive selection and development program, 1141, 9595

income tax returns, file directly to service centers—  
law, 427  
report, 902

looseleaf regulations system—  
employment tax, 2407, 3527, 6457, 9598

estate and gift tax, 3526

excise taxes, 1145, 3528, 4917, 8219, 11222, 15334

income tax, 2406, 3525, 6455-56, 8218, 9597, 11220-221, 12649, 14202, 16723, 17851

procedure and administration, 1146, 3529, 4918, 6458, 12650, 14203-204, 15335, 17852

opportunities for increasing revenues by improving controls etc., relating to interest paid on Federal income tax refunds, GAO report, 2344

opportunities for reducing costs on refunds attributable to net operating loss deductions, GAO report, 11149

principal Federal tax returns, related forms, and publications, description, 12647

procedures, 12651-652, 14205

report, 1966—  
departmental edition, 2403

document edition, 2011

travel, entertainment and gift expenses, rules for deducting from income tax, 2410

Internal Revenue Taxation Joint Committee:  
estimates of Federal receipts, 10686

Federal excise tax data, 10687

summary of—  
act temporarily suspending investment credit and limiting use of accelerated depreciation, 4566

foreign investors tax act, 9177

Senate amendments to H.R. 13103, Foreign Investors tax act of 1966.

Presidential election campaign fund act, etc., 4567



- Internal Revenue Taxation Joint Committee—Continued  
summary of—continued  
Senate amendments to H.R. 17607,  
suspensions of investment credit and  
accelerated depreciation, 4568  
Internal security, *see* National security.  
Internal structure and physics of earth, 9920  
International affairs, *see* International relations.  
International Affairs Institute, establish,  
hearings, 9156  
International agreements:  
in force, list, 7194  
treaties and other international agree-  
ments, 14691  
*see also* subjects, names of countries, etc.  
International agricultural development,  
monthly newsletter to cooperators, 3432  
International Agricultural Development  
Service:  
annual summary, International agricul-  
tural development, 6464  
appropriations, 1968, hearings, 10629,  
12397  
International Air Transport Association, role  
in growth and development of air trans-  
portation throughout world (remarks),  
1900  
International aspects of antitrust, hearings,  
7818, 13874  
International Association of Chiefs of Police,  
highway safety study, Operation 66, joint  
engineering-enforcement project report,  
1594  
International Association of Governmental  
Labor Officials, 1966 convention proceed-  
ings, 11301  
International Association of Machinists and  
Aerospace Workers, emergency board re-  
port, 13966  
International Astronomical Union, IAU  
system of astronomical constants into  
Astronomical ephemeris and into Ameri-  
can ephemeris and nautical almanac,  
6995  
International Atomic Energy Agency:  
application of safeguards to cooperation,  
agreement with—  
Argentina, 2893  
Australia, 7160  
Israel, 5533  
South Africa, 17240  
Spain, 8736  
promise of IAEA (remarks), 15972  
U.S. participation, 1963, report, 5528  
International Bank for Reconstruction and  
Development, participation of U.S., an-  
nual report, 12200  
International Biological Program, hearings,  
17612  
International boundary studies, 1630-33,  
2883, 8718, 11829, 17224-225  
International Brotherhood of Electrical  
Workers, emergency board report, 13966  
International cataloging, Federal manual for  
supply cataloging, 4669  
International Center for Advanced Study in  
Health Sciences, building, etc., construc-  
tion, appropriations, 1968, amendments,  
10517  
International Center for National Capital,  
11594  
International Civil Aviation Organization,  
financing air navigation services in Ice-  
land, agreement, 7158  
International claims settlement act, *see*  
Claims.  
International commerce (periodical), 3434  
supplements, 2417, 17853  
International Commerce Bureau:  
foreign market reports service, listing,  
12653  
International business publications, check-  
list, 6467, 15339  
International Commerce Bureau—Continued  
Paris Air Show—  
news fillers, 8225  
newsletter, 8226  
press releases, 3738  
International Convention for Conservation  
of Atlantic Tunas, report, 6064  
International Convention for Prevention of  
Pollution of Sea by Oil, amendments, im-  
plementing, hearings, 745  
International Convention on Safety of Life  
at Sea, amendments to 1960 convention—  
report, 7773  
text, 6062  
International cooperation:  
geodetic operations in U.S. and in other  
areas, report, 14873  
programs advancing status of women,  
reports of U.S. Government agencies,  
8793  
International Cooperative Investigations of  
Tropical Atlantic, Equalant III, data re-  
port, 8569  
International Cotton Institute, *see* Interna-  
tional Institute for Cotton.  
International Council for Exploration of  
Sea, convention, report, 6064  
International Criminal Police Organization,  
participation of U.S., amend law, report,  
13680  
International Development Agency:  
AID story, U.S. economic aid program,  
6468  
biographic register, 14670  
Deputy Administrator, nomination of  
Rutherford M. Poats, hearing, 9312  
development of cooperative enterprises  
under foreign assistance act of 1961,  
report, 13700  
economic development projects in India,  
planning and surveillance, GAO report,  
16669  
field staff, Foreign Service list, 3349  
food donated for distribution abroad, prob-  
lems in processing claims against volun-  
tary relief agencies for loss or misuse,  
GAO report, 12589  
food donation programs administered by  
nonprofit organizations, audit extent,  
GAO report, 8149  
operations report, 3659  
press releases, 3739  
procurement regulations, 2994, 17855-856  
projects in Colombia, planning and super-  
vision, GAO review, 16677  
proposed foreign aid program, 1968, sum-  
mary presentation to Congress, 11230  
reorganization, message from the Presi-  
dent, 6000  
retirees, prospective, general information  
for, 8721  
specific risk investment guaranty hand-  
book, 4925  
telephone directory, 15764  
transportation costs for food donated for  
overseas distribution, GAO review, 9550  
United States agencies in Vietnam, audit  
and inspection programs, 1966, GAO  
review, 9553  
Vietnam commercial import program,  
management and operation, GAO review,  
15302  
Vietnam, improper practices, commodity  
import program, U.S. foreign aid, hear-  
ings, 10844  
International Development Association:  
appropriations, 1967, law, 405  
appropriations, 1968, hearings, 15014  
participation of U.S., annual report, 12200  
International education, *see* Education.  
International Educational and Cultural  
Affairs, Advisory Commission on, *see* Ad-  
visory Commission on International Edu-  
cational and Cultural Affairs.



# INDEX 1967

- International exchange:
  - educational and cultural exchange-of-persons program, 4080-81, 14678
  - educational, opening decade 1946-66, history, accomplishments, etc., 4819
  - teacher exchange program, 13958
  - see also Government publications—also subjects.
- International Federation of Automatic Control, 3d Congress, 2431
- International Finance Corporation, participation of U.S., annual report, 12200
- International Human Rights Year, U.S. observance, report, 12386
- International Hydrographic Bureau, convention, message from President of United States, 17618
- International Hydrographic Organization, establish, message from President of United States, 17618
- International Hydrological Decade, program, crucial importance of water in man's future, 6396
- International Institute for Cotton agreement, 8738
- International labor (periodical), 3436
- International Labor Affairs Bureau activities, outline, 6470
- International Labor Conference, 49th conventions adopted and recommendations, 16160
- International Labor Organization:
  - conference in Geneva—
    - appoint delegates to attend, report, 10604
    - recommendation concerning role of co-operatives, text, 13554
  - conventions adopted and recommendations, 16160
  - recommendation, employment of women with family responsibilities, 5990
  - recommendations, and convention adopted at conference, withdrawal of treaty, text, 15064
- International law:
  - economic relations and rule of law (remarks), 10120
  - studies, 11683
- International Law, Private, Hague Conference on, see Hague Conference on Private International Law.
- International Monetary and Financial Policies, National Advisory Council on, see National Advisory Council on International Monetary and Financial Policies.
- International Monetary Fund:
  - facility based on special drawing rights, outline plan, hearing, 17563
  - outline plan (remarks), 17271
  - participation of U.S., annual report, 12200
- International notams, 3437, 9445
- International organization and conference series, 5528-30, 8719-20, 11830, 14679, 18232
- International organizations:
  - headquarters, acquisition of property by D.C. government for sites, report, 7701
  - private participation in international activities, promote, hearings, 9156
  - public exempt from District of Columbia unemployment compensation act, amend, report, 16293
  - services for disabled, through international cooperation (remarks), 11705
  - U.S. contributions, 518
  - U.S. missions, field staffs, Foreign Service list, 3349
- International Paper Company, Southern Kraft Division, wage chronology, 8315
- International policy, see International relations.
- International postal service:
  - directory of international mail, 3211, 10027
  - international mail, general information, 14608
- International Quiet Sun Year, 1964-65, weekly synoptic analyses, 5-, 2- and 0.4-MB. surfaces for 1964, data from Meteorological Rocket Network, 10968
- International relations:
  - arms sales and foreign policy, study, 6098
  - Atlantic alliance—
    - current views, 10838
    - unfinished business, 6108
  - changing American attitudes toward foreign policy, hearing, 6100
  - code of Federal regulations, 7978
  - conflicts between U.S. capabilities and foreign commitments, hearing, 6102
  - control of local conflict, design study, 15924
  - defense commitments of U.S. (statement), 1628
  - diplomatic relations act of 1967—
    - hearing, 10831
    - report, 12387
  - East-West relations—
    - constructive initiatives (address), 10099
    - recent developments, hearing, 4533
  - foreign affairs research, Governmental resources, directory, 17221
  - foreign aid, essential element of U.S. foreign policy (address), 18231
  - foreign policy briefs, 3348
  - foreign policy of U.S.—
    - American foreign policy, current documents, 8705, 17211
    - investigation—
      - authorization, reports, 4627, 7663
      - expenses, reports, 639, 7725
    - State Department bulletin, 3198
  - foreign relations of U.S., diplomatic papers—
    - China, 1944—
      - departmental edition, 13140
      - document edition, 12192
    - general, 1944—
      - departmental edition, 5527, 13139
      - document edition, 4464, 12191
    - general, United Nations, 1945—
      - departmental edition, 18230
      - document edition, 17565
  - foreign relations of U.S., publications, price list, 7054
  - foreign trade—
    - future of U.S. policy—
      - hearings, 16146
      - subcommittee report, 16147
    - issues and objectives of U.S. policy, statements, compendium, 16148
  - general foreign policy series, 1628-29, 2881-82, 7146-47, 14676, 18231
  - German foreign policy documents, 3d Reich, 1st phase, 1625
  - government, universities, and international affairs, crisis in identity, report, 10516
  - how foreign policy is made, 2881
  - idea of amelioration (address), 9011
  - implications of change for United States foreign policy (remarks), 14676
  - in search of peace, basic goals of United States foreign policy, motion picture announcement, 7149
  - International information and cultural series, 7150, 14678, 17226
  - Kennedy Round, foreign policy aspects—
    - hearings, 730, 10650
    - subcommittee report, 10651
  - Latin America, United States operations, review, 7770
  - legislation on foreign relations, collection, 6106
  - military security and foreign relations, regulations, Engineers Corps, 6206
  - modern communications and foreign policy, report, 10623
  - new man for new age in world affairs (remarks), 18243

International relations—Continued  
 opportunities and risks of financing world progress (remarks), 7210  
 phases in USSR foreign policy, 1279  
 power and responsibility (address), 5530  
 science, foreign affairs, and State Department (address), 14671  
 science, government, and international policy, Panel on Science and Technology, 8th meeting—  
   papers, 12315  
   proceedings, 9170  
 Soviet-Arab contradictions in their relations with Israel, 14241  
 strategic importance of Western Europe, 5614  
 United States and the world, introduction to our foreign relations, color filmstrip, teacher's manual, 5553  
 United States commitments to foreign powers hearings, 17652  
 United States-European relations, study and reevaluation, hearings, 13863  
 United States policy in Near East crisis, 14680  
 United States should substantially reduce its foreign policy commitments, national high school debate topic, 2002  
 United States-South African, hearings, print additional copies, report, 13655  
 USSR, faithfulness to international obligations, 14267  
 USSR international economic relations, translations, 4024  
 Vienna convention on diplomatic relations act of 1967, report, 12387  
 Vietnam, shipping policy review, hearings, 743  
 winning cold war, U.S. ideological offensive, hearings, 10623  
 world affairs overall viewpoint (address), 7902  
 worldwide military commitments, hearings, 944, 10816  
 International Research Group on Refuge Disposal, information bulletins, 2827  
 International science notes (periodical), 3439  
 International Statistical Programs Office, series ISPO 1, 182, 1885, 4360, 5898-99, 7496, 10387  
 International sugar agreement of 1958, protocol, prolongation, text, 2885, 9186  
 International Symposium on Nucleolus, participants and addresses, 7074  
 International Systems Research, Center for, see Center for International Systems Research.  
 International trade, see Commerce.  
 International Whaling Commission, convention, amendments to schedules, 7161  
 International wheat agreement, extension protocol, 17246  
 Interns, see Dentists—Physicians.  
 Interoceanic Canal Study Commission, see Atlantic-Pacific Interoceanic Canal Study Commission.  
 Interparliamentary Group, Canada-United States, see Canada-United States Interparliamentary Group.  
 Interparliamentary Group, Mexico-United States, see Mexico-United States Interparliamentary Group.  
 Interplanetary dust outer ionosphere and its transition to interplanetary medium, USSR study, 6535  
 Interplanetary medium, see Interplanetary dust.  
 Interplanetary vehicles, see Spacecraft.  
 Interpolation tables of folded sin x/x coefficients, 4413  
 Interpretation (law), see Law.  
 Interpretation of Maund culture history, 11973, 12193  
 Interpretative bulletins, Wage and Hour and Public Contracts Divisions, 11897, 13178

Interstate agreements:  
 Arizona-California boundary compact, consent of Congress, report, 4499  
 bus taxation proration, Massachusetts, consent of Congress—  
   law, 440  
 Great Lakes basin, consent to compact, hearings, 731  
 oil and gas compact, consent of Congress to extend—  
   hearing, 15042  
   report, 10737  
   report of Attorney General, 15431  
 personnel training, authorize compacts, hearings, 12409  
 Washington Metropolitan Area Transit Authority compact, approval—  
   hearing, 2132  
   law, 478  
   report, 654  
 Interstate and Foreign Commerce Committee, House:  
   activities, 89th Congress, 2d session, 4515  
   calendar, 3479  
   committee print, 4547  
   hearings, 2053, 9163, 10659-660, 12304-305, 13709-710, 15041-43, 17605  
   investigations and studies—  
     authorization, report, 6022  
     expenses, report, 7727  
   reports, 680, 2035, 4515, 9112, 9136, 10567, 12259, 13865, 14971, 14980, 16230  
 Interstate commerce, see Commerce.  
 Interstate commerce act, see Carriers—Railroads.  
 Interstate Commerce Commission:  
   appropriations, 1967, proposal, 10699  
   appropriations, 1968—  
     hearings, 9145, 15147  
     reports, 10600, 15131  
   commissioners, nominations—  
     Hardin, Dale W., hearing, 15153  
     Syphers, Grant E., hearing, 15153  
   decisions (bound reports), 2421, 6474, 14210, 16727, 17857  
   decisions (separates)—  
     finance, 3440  
     motor carrier, 3441  
     motor carrier finance, 3442  
     traffic, 3443  
   report, 1965, errata, 2420  
   report, 1966—  
     departmental edition, 6471  
     document edition, 5981  
   transfer—  
     law, 389  
     report, 906  
 Interstate Commission on Potomac River Basin:  
   appropriations, 1967, law, 491  
   appropriations, 1968—  
     hearings, 9144  
     report, 13678  
 Interstate compacts, see Interstate agreements.  
 Interstate Conference on Labor Statistics, proceedings of 24th conference, 15454  
 Interviewing:  
   guides for specific disabilities, 10944  
   interview data on chronic conditions compared with information derived from medical records, 11762  
   progress interview, helps for management in counseling people about their work, 6373  
 Intestinal flora:  
   effect of diet and atmosphere—  
     experimental data, 9799  
     literature survey, 2613  
 Intestines, tumors, pathology, 15181  
 Intoxicants, see Liquors.  
 Intoxication, see Drunkenness—also names of poisons.  
 Intra-aortic blood pressure, see Blood pressure.

# INDEX 1967

Intracoastal Waterway:  
 Gulf, Gulf County Canal, Fla., modification, engineer report—  
 departmental edition, 2209  
 document edition, 1998  
 Gulf section, New Orleans, La., to Port Arthur, Tex., etc., navigation maps, 8383  
 Gulf, transportation line, 2219  
 Inulin, stability in frozen plasma using automated technic, 4185  
 Invariants, *see* Integrals.  
 Inventions:  
 Index of patents, 1966, subjects, 11687  
 products list circular, new products development for small business, 3775  
 Inventories:  
 accounting system for aeronautical equipment, Navy Dept., GAO review, 16676  
 control, cooperative grain elevators, 15235  
 department store, price indexes, 6614  
 executive inventory, questions and answers for executives, 10419  
 Government-owned property in U.S., Territories, etc., 4540  
 green coffee, 3384  
 livestock and poultry, 5682, 7198  
 manufacturers—  
 current industrial reports, 3540  
 1963 census, 4275  
 value, annual survey of manufactures, 7454  
 National Oceanographic Data Center, archived data, Arctic and Antarctic supplement, 6996  
 plant, material received by New Crops Research Branch, 8810, 15828  
 preliminary inventories series, 14506-510, 18074  
 real property—  
 leased to U.S. throughout world, 11160  
 owned by U.S. throughout world, 1966, report, 6386  
 road inventory manual of instructions, guide, 17177  
 shortleaf pine seedling methods on broadcast-seeded areas, 8072  
 size, determined by computer program, 2641  
 tuna and swordfish, exploratory longline fishing efforts and catch rates in northwestern Atlantic, 14063  
 turkeys, 13158  
 Inverters, static, 3-phase single-way, power circuits for optimum stepped-wave output, 10008  
 Investigators, CSC career opportunity, 207  
*see also* Criminal investigators.  
 Investment companies:  
 act of 1940—  
 amend, hearings, 15152  
 SEC releases, 3445  
 growth, public policy implications, report, 2035  
 mutual fund legislation of 1967, hearings, 15152  
 small business—  
 examination function of SBA, GAO review, 16675  
 investigation, hearings, 10845  
 program of SBA, report, 4509  
 program, review, hearings, 2062  
 small business investment act—  
 amendments of 1966—  
 law, 483  
 report, 4588  
 amendments of 1967—  
 hearings, 10820, 15020  
 law, 17549  
 reports, 12391, 14961, 14982, 16261  
 text and related tax matters, 9330  
 Investment for tomorrow, report of Presidential Task Force on Career Advancement, 7046  
 Investment in poor people, 5044

Investments:  
 catalog of investment information and opportunities, index, 1150, 14208  
 deletion notices, 3079  
 supplement notices, 3080  
 credit carrybacks, income tax, amend law, report, 15093  
 direct, voluntary program, status and prospects (remarks), 5964, 7585  
 disputes, settlement, convention, 2922  
 implement, report, 2093  
 District of Columbia, legal investments for trust funds, list, 6157, 15201  
 forestry, long-term, computer program for evaluating, 14131  
 guaranties, agreement with—  
 British Guiana, 2887  
 Cameroon, 11868  
 Ghana, 10104  
 India, 2909  
 Lesotho, 11865  
 Malta, 8748  
 Paraguay, 7187  
 Philippines, 5544  
 Zambia, 2933  
 institutional funds in FIIA insured mortgages, 12626  
 international encouragement, convention with Trinidad and Tobago—  
 hearing, 17651  
 reports, 6063, 17620  
 investment advisors act of 1940—  
 amend, hearings, 15152  
 rules and regulations, 8677  
 SEC releases, 3444  
 investment credit, income tax information, 4916  
 nonfarm mortgages, life insurance companies, 15241  
 overseas, aids to business, 1152  
 quick refunds of investment credit carryback—  
 law, 1970  
 reports, 2023, 2097  
 restoration of investment credit and accelerated depreciation allowance—  
 hearings, etc., 7764, 7804  
 law, 12168  
 legislative history, 13719  
 message from the President, 9063  
 reports, 7711, 7713, 9271, 10614  
 specific risk investment guaranty handbook, 4925  
 suspension of investment credit, etc.—  
 hearings, 952  
 law, 504  
 summary, 4566  
 legislative history, 2064  
 report, 677  
 Senate amendments, summary, 4568  
 trade and investment in developing countries, report, 9026  
 United States investment of military assistance funds in military installations located in France, 9158  
 voluntary program for direct investments, status and prospects (remarks), 5964  
 Investors:  
 foreign investors tax act of 1966—  
 House bill and suggested technical amendments, summary, 2114  
 law, 513  
 legislative history, 7762  
 report, 702  
 Senate amendments, summary, 4567  
 summary, 9177  
 Inyo County, Calif.:  
 Birch Creek, travertine depositing stream, physical and chemical description, 8171  
 convey land to estate of Gwilym L. Morris, etc., 4494  
 Independence quadrangle, stratigraphy of Paleozoic formations, 2364  
 Ionnes, Raymond A., talk, Nov. 14, 1966, 4818

- Iodides, content in oilfield brines in some Tertiary and Cretaceous formations in Mississippi and Alabama, 11385
- Iodine, use for reducing static electricity of polymers, 14411
- Iodine isotopes, iodine-131 concentration in aqueous samples determined by ion exchange, 12833
- Ion chambers, see Ionization chambers.
- Ion cyclotron wave generation in uniform and nonuniform plasma including electron inertia effects, 12962
- Ion exchange:  
determines iodine-131 concentration in aqueous samples, 12833  
membranes, inorganic, application to electrodialysis, 8214  
structure and transport of polystyrenesulfonate model membranes, 9592  
technology, Soviet research, 8254
- Ion exchangers, characteristics, USSR study, 9644
- Ion plating, see Plating.
- Ion thrusters:  
electron-bombardment—  
beam, measurement of ion and electron densities, 5244  
dynamic characteristics, 18033  
onset of anomalous diffusion, 2710  
mercury electron bombardment—  
accelerator grid durability tests, 14462  
cathode durability tests, 12960  
oxide-cathode durability, 6867
- Ionite, USSR studies, 12749
- Ionization:  
concerning use of highly ionized plasma to create a laser, USSR study, 4998  
contact, of cesium, use porous ionizers, status, 11540  
photolionization detector, improved soft X-ray, 9838  
potentials, role of ligand molecules, research, 9588  
probability of iron particles at meteoric velocities, 11406  
surface ionization on glowing metals, theory, 11568
- Ionization chambers, ion chambers simplify absolute intensity measurements in vacuum ultraviolet, 1447
- Ionization gages:  
Bayard-Alpert, variations in gage constant, emission current function, 6863  
hot-cathode magnetron, 5185  
orbitron, low pressure application, study, 16909  
performance characteristics, survey, 5290  
small volume, ultrahigh vacuum system, studies, 18037
- Ionized gases, see Gases.
- Ionizers, porous, for contact ionization of cesium, status, 11540
- Ionizing radiation:  
applied spectrometry, main problems, 123  
biological effects, bibliography, indexes, 13343  
effects on concentration of amino compounds in rat plasma, 5714  
exposed workers, assistance to States for recordkeeping, hearings, 1974  
maximum permissible levels, USSR study, 11286  
mechanism of action of AET, protection of DNA against ionizing radiation by GED, 5713  
mutagenic activity of chemical compounds and genetic effect, USSR studies, 2438  
powerful tool of scientific research, Bulgarian study, 4940  
pulsed, effects on primate equilibrium function, 7354  
State legislation and regulations involving, 7093  
substrate protection of enolase and lactic dehydrogenase against mechanism, studies, 14774
- Ionosphere:  
disturbances, principles of predicting, USSR manual, 14237  
earth cavity, thin shell model, resonances, 2225  
earth-ionosphere waveguide channel, propagation of long and superlong radio waves, USSR excerpt, 17873  
electron densities and scale heights recorded at Hawaii, 6736  
electron density and scale heights over American continents, 2617  
summary graphs, 16930  
F2 layer, diurnal variation, influence of earth's magnetic field, 8512  
Gemini experiment D-14, dual-channel, VHF-UHF transmitter, 10004  
Gemini VHF-UHF polarization experiment D-14, antennas, 10009  
high frequency ionospheric telecommunications systems, statistical performance indexes, predicting, 2223  
ionospheric mapping by numerical methods, advances, erratum, 8526  
ionospheric predictions (periodical), 3446  
lunar, detection, results of experiments made on 1st lunar artificial satellite, USSR study, 4950  
outer, and its transition to interplanetary medium, USSR study, 6533  
planetary, investigation, 12847  
polar cap, cooperative study, agreement with Canada, 17248
- Ions:  
cation effect on solubilization by oil-soluble sulfonates and applicability of mass law, 17095  
electrode, use in measurement of serum ionic calcium, 13271  
hydrated multivalent cations, new class of molten salt mixtures, 9794  
improved ion sources, 9817  
ion-microprobe sputter source, mass spectrometer analysis of solid materials, 5178  
ionic conductivity of calcium and strontium fluorides, 6866  
magnetic fields, use to produce ionic concentration gradients, 9589  
transport in biological systems, model membrane studies, 6443  
volume production costs in tenuous plasmas, 15577  
see also ions by name, e.g., Magnesium.
- Iowa:  
area measurement report, 5811  
census of agriculture, 1964, State and county statistics, 10392  
census of manufactures, 1963, area statistics, 156  
census of mineral industries, 1963, area statistics, 5827  
climate, 9425  
climatological data, 3096  
county business patterns, 1862, 13372  
electric rate book, 14028  
mineral industry, minerals yearbook, chapter, 2554  
postal map, 15654  
precipitation data, hourly, 3401  
southwestern, landscape evolution and soil formation, 14763  
western, promising conifers, 8107  
Iowa County, Iowa, soil survey, 14657  
Iowa Indians, Iowa Tribes of Kansas and Nebraska and of Oklahoma, judgment funds, disposition, report, 16238  
Ipswich River and Valley, water resources of basin, 6411  
IQSY, see International Quiet Sun Year, 1964-65.  
IR, see Infrared rays.
- Iran:  
agricultural commodities, agreement, 8737  
atomic energy, cooperation for civil uses agreement, 10103

## Iran—Continued

attacks oil consortium, 4972  
background notes, 1616  
capsule facts for Armed Forces, 11980  
establishing business in, 13467  
foreign trade regulations, 17474  
mineral industry, minerals yearbook chapter, 8353  
press information report, 3702

## Iraq:

agricultural commodities, agreement, 11844  
capsule facts for Armed Forces, 13280  
Communist movement, 14261  
southwestern, geology, 6407

IRATS, *see* Infrared Acquisition and Tracking System.

Irazú Volcano, ash eruptions, debris flow and erosion control problems, 16686

## Ireland:

economy, basic data, 5955  
mineral industry, minerals yearbook chapter, 12802

IRGRD, *see* International Research Group on Refuse Disposal.

Iribe, P., extravehicular protection and operations, study, 12859

## Iridium:

electrodeposition from fused sodium cyanide and aqueous electrolytes, 16865  
sliding friction, 15578

Irigoyen, Ramon G., relief, 12351

Iris diaphragm, diode-iris controlled waveguide slot radiators, feasibility study, 9812

Irkutsk, Russian SFSR, new Soviet academic settlement, 9637

## Iron:

and steel, minerals yearbook chapter, 2544  
and steel scrap—  
intermountain and northwestern Plains States, processing and marketing, 16855  
Southeast, sources, consumption, etc., 12797

chromium alloys, preparation, 5364

## cobalt alloy—

magnetically soft, high-temperature, investigation, 1500  
with superior high temperature magnetic properties, 5209  
compounds, chemical shift in Mossbauer spectroscopy standard, 15588  
diffusion barrier in thermally regenerative galvanic cell, 12843  
foundaries, current industrial reports, 4329

gage of 6.5% Si-Fe sheet is chemically reduced, 2624

heat treatment and properties, 2739

identification symbols, Communist China, 6547

industry, water requirements, 12617

Lake Superior resources, 6678

Michigan-Wisconsin formations, samples and metallurgical evaluation, 6678

## ore—

deposits, Wyoming, description, etc., 5104

developing thermochemical model for blast furnace, measurement of rate coefficient for reduction of iron ore pellets in packed bed, 17915

Lake Superior resources, 14346

mineral industry survey, 3447, 5106

minerals yearbook chapter, 6641

particles at meteoric velocities, ionization probability, 11406

Pederson process adaptation to ferruginous bauxites of Pacific Northwest, 9788

processing of high-iron Arkansas bauxite ores, 9766

products, identification markings, Federal standard, 2269

## Iron—Continued

pure, residual resistance ratio, 5348  
trade and tariff information, summaries, 18237

*see also* Cast iron.

Iron castings, *see* Castings.

Iron County, Mich., geology of Kelso Junction quadrangle, 6392

Iron garnets, *see* Garnet.

Iron ores, *see* Iron—also name of special

iron ore, e.g., Hematite.

## Iron oxides:

electron optical survey of films produced in  $H_2O$ ,  $LiOH$ , and  $LiOH/EDTA$  solutions, 8594

pigments, minerals yearbook chapter, 1399

Iron Springs formation, Utah, geologic interpretation of aeromagnetic survey, 11173

Irradiated gases transferred without contamination or dilution, 8469

Irradiation, *see* Gamma rays—Neutrons—Radiation.

Irradiation capsules, *see* Radiation target cans.

## Irrigation:

farm systems, planning, 14652

mosquito prevention on irrigated furrows, 7261

operation and maintenance bulletin, 3448  
pipe trailer, farm building plan, 1707

projects, water measurement manual, 11776

publications, price list, 8623

SCS national engineering handbook, 14652  
sprinkler systems, description, buying, etc., 5638

Western States, quality of surface waters, 8185

wireworms on irrigated lands, control, etc., 10170

Irrigation projects, *see* Reclamation of land—also names of projects.

Irrrotational flow of frictionless fluids, mostly of invariable density, 11682

IRS, *see* Internal Revenue Service.

Irwin, James H., geology and availability of ground water on Ute Mountain Indian Reservation, Colo. and N. Mex., 6409

Is there a job in your future? 4687

Isakson, G., discrete-element methods for plastic analysis of structures, 17933

Isbister, John, geology and hydrology of northeastern Nassau County, Long Island, N.Y., 4894

Ischemia, myocardial, electron-histochemical investigation, USSR study, 14219

Isentropic process, flow, solutions for reacting gas mixtures in thermochemical equilibrium, 16979

Ishmael, George D. convey land to, 4494

Ishmael, Verna H., convey land to, 4494

Islam, *see* Mohammedanism.

Islamic Republic of Mauritania, *see* Mauritania.

Island Falls quadrangle, Maine, bedrock, geological-geophysical investigations, 6401

Island Park, Iowa, accident, 11238

Islands, *see* names of islands.

Isleta paintings, artist in pueblo society, letters, etc., 14547

Isocyanates process produces chlorinated aromatic isocyanate in high yield, 6808

Isolation effects of sensory deprivation on sensory perceptual, motor, cognitive, and physiological functions, 8419

Isolator, synthetic phase, signal processing technique, study, 11297

Isophellidae, *see* Sea anemones.

Isostatic compression process converts polyaromatics into structural material, 12898

Isothermal and isophotic atlas of moon, contours through lunation, 16894

## Isotopes:

alpha emitting, monoenergetic X-rays from, generation and practical use, 4234

**Isotopes—Continued**

- development program, AFC authorizing legislation, 1968, hearings, 10491
- fluorescent excitation using isotopic X-ray emission, 5779
- fracturing in underground nuclear blast, 1268
- isotopes and radiation technology, quarterly technical progress review, 3449
- isotopic preparations, report, 14518
- isotopic water current meters, DWICA's, 13328
- powerful tools of scientific research, Bulgarian study, 4940
- radioisotopes—
  - applications in hydrospace, final reports—
    - Dowtherm A heat transfer tests 5762
    - Dowtherm A Rankine cycle technology, 5761
    - fuel specifications, 1777
    - program plan, 1776
  - RISE conceptual design, 5760
  - biological sciences, annotated bibliography, 10304
  - effects on life processes, bibliography, indexes, 13343
  - experiments in high school biology, bibliography, 5797
  - gauge for monitoring suspended sediment concentration in rivers and streams, 1794
  - how to get license to use, 17405
  - power from, 7444
  - techniques for instruction in biological sciences, 8910
  - techniques, radiochemical analysis, 2746
  - use as power sources in Western Europe, 15416
- systems development program, 8th annual contractor meeting, 13317
- transuranium, formation in power reactors, 124
- uranium and plutonium, isotopic composition in reactor fuel element solutions, 13333
- visit to USSR Isotope center, 16770
- X-ray sources for portable stress analysis equipment, feasibility, 14809
- see also names of isotopes, e.g., Neon.
- Isotropy, plane isotropic buildup factors for bremsstrahlung calculations, 15565
- ISPO, see International Statistical Programs Office.
- Israel:
  - accessions list, Library of Congress, American Libraries Book Procurement Center, Tel-Aviv, 3450
  - agricultural commodities, agreement, 17245
  - atomic energy cooperation for civil uses, agreement, 5533, 7157
  - capsule facts for Armed Forces, 13281
  - cotton textiles trade, agreement, 11855
  - economy, basic data, 4434
  - education, Educational Foundation, and financing and exchange programs, agreement, 11874
  - extradition convention, correction of text, agreement, 13153
  - foreign trade regulations, 9020
  - labor law and practices, 16812
  - Lebanon armistice line, boundary study, 11829
  - modern education system, development, 6187
  - Soviet-Arab contradictions in their relations with Israel, 14241
  - today and tomorrow, 5025
  - United States policy in Near East crisis, 14680
  - United States travelers, you can assist U.S. balance of payments, 11887
  - war or peace in Middle East, study mission report, 10837

- Isthmian Canal, see Panama Canal.
- Istle, suspension of duty, continue, report, 884
- Isurus, see Sharks.
- Itagaki, Kazuhiko, cloud droplet camera, 4202
- Italian physicist in North Vietnam tells of culture and civilization as bombs fall, 12699
- Italy:
  - background notes, 18222
  - claims of American nationals, timely determination, hearing, 12300
  - cotton velveteen fabrics exports, trade agreement, 11845
  - economy, basic data, 16107
  - educational foundation and financing of exchange programs, agreement, 11842
  - establishing business in, 17475
  - Italian Armed Forces, World War II records, guide, 17028
  - marriage documentary requirements for United States citizens in Italy, agreement, 15767
  - mineral industry, minerals yearbook chapter, 14333
  - scientific cooperation, agreement, 17231
  - U.S. Army, Southern European Task Force, personnel ordered to, helpful hints, DA pamphlet, 11991
- Item identification, see Identification.
- It's fun to yell bravo, Lincoln Center's program opens new world to teenagers, 12465
- It's the latest, it's the greatest, it's the li-ber-ee, 12466
- ITSA, see Institute for Telecommunication Sciences and Aeronomy.
- ITV (instructional television), see Television.
- Iverson, Henry G., reactions of manganese with silica, 6684
- Ivins, Robert A., relief, 307
- Ivory Coast:
  - economy, basic data, 13466
  - housing, basic information, 6419
  - labor conditions, 1375
  - mineral industry, minerals yearbook chapter, 8354
- Ivy, see Poison ivy.
- Iwo Jima, Marines, battle and flag raising, 14311
- Izquierdo, Angel R. Ramos, see Reaud, Angel.
- Izvestiya VUZov (periodical):
  - instrument building, 3451

**J**

- J. Herschel LAC 11, lunar chart, 10224
- Jablonski, Stanley, Russian drug index, 8534A
- Jacchia, Luigi G., analysis of atmospheric trajectories of 413 precisely reduced photographic meteors, 18204
- Jack pine, see Pine.
- Jackpile mine, uranium deposits, etc., 8165
- Jackson, Andrew:
  - papers, index, 6623
  - 10-cent regular postage stamp (poster), 7041
- Jackson, Charles T., jr., validation of research simulator for investigating jet transport handling qualities and airworthiness criteria during takeoff, 1476
- Jackson, George T., soil survey of Warren County, Tenn., 17208
- Jackson, Glenn A., measuring human performance with parameter tracking version of crossover model, 17944
- Jackson, R. J., properties and current applications of magnesium-lithium alloys, 8441
- Jackson, Robert A., stability of proposed breakwater, Burns Waterway Harbor, Ind., hydraulic model investigation, 7933
- Jackson, Miles, area wage survey, 11314
- Jackson County, Ark., water resources, 14181



# INDEX 1967

- Jacksonville, Fla., area wage survey, 9745  
 Jacobsen, Carl R., basic data on economy of Costa Rica, 7578  
 Jaffe, Arthur, review of occupational employment statistics, employment of scientific, professional, and technical personnel in State governments, 15450  
 JAG journal, 3452  
 JAG law review, 3453  
 Jahn, Otto L., degreening response of color-sorted Florida oranges, 17300  
 Jamaica:  
   agricultural production, indices, 4700  
   background notes, 14665  
   capsule facts for Armed Forces, 17368  
   Cayman Islands, weather station, agreement with Great Britain, 7192  
   economy, basic data, 13461  
   exchange of official publications, agreement, 13145  
 James, George A.:  
   recreation use estimation on Forest Service lands in United States, 15284  
   use of water-meter records to estimate recreation visits and use on developed sites, 12579  
 James, Hugo A., range and variations of subspecies of *Cambarus longulus*, 6947  
 James, Joseph, or heirs, relief, 610  
 James, Lawrence W., sensitive recording NMR ultrasonic spectrometer, 2744  
 James, Maurice T., species of *Hermatia* of aurata Group, 11609  
 James, Thomas G., effects of electron irradiation from 20 KeV to 1 MeV on polyethylene terephthalate capacitor-type meteoroid detector, 1491  
 James division, *see* Missouri River Basin project.  
 Jameson, Donald A., juniper control by individual tree burning, 2313  
 Jamison, D. E., command processors, 14479  
 Jams:  
   citizenship and strawberry jam, FSA's protective role in food industry, etc., 15272  
   how to make at home, 5629  
 Jane, Magaly, relief, 10722  
 Japan:  
   aluminum industry, 9015  
   background notes, 15756  
   economy, basic data, 5951  
   Engineers Corps, technical services in war against, 5096  
   establishing business in, 232  
   fisheries—  
     king crab, agreement, 7185  
     off U.S. coast and salmon fisheries, agreement, 15794  
   French bathyscaphe departs for Japan, 9631  
   geodetic satellite observation station, agreements, 8732, 11867  
   health information for travel, 13078  
   Japanese Association for Radiation Research on Polymers, annual report, 5758  
   loan of vessel, reduction, agreement, 17244  
   market, U.S. farm products, competitive position, 995  
   military personnel of U.S. Army ordered to, helpful hints, 7387  
   mineral industry, minerals yearbook chapter, 12803  
   mutual defense assistance, agreement, 15778  
   northern part, sailing directions, change, 2771  
   plant quarantine requirements, 5617  
   tariff concessions, staging, amending agreement, 15802  
   trade agreement relating to GATT, 5540  
   trade with Japan (address), 1936  
   visas, waiver of nonimmigrant fees, agreement, 2919  
 Japan—Continued  
   wages—  
     joint United States-Japan wage study, 2489  
     similarities and contrasts with U.S. system, 16827  
     welding equipment industry, 12031  
     World War II operations in southwest Pacific area, reports of Gen. MacArthur, 11992  
   Japan Air Lines, Ltd., accident, 17059  
   Japanese cooly trade laws, repeal, report, 7684  
   Jaremenko, Igor M., wakes, their structure and influence upon aerodynamic decelerators, 9808  
   Jarrell, Randall, lecture by Karl Shapiro, 12780  
   Jarvis, Calvin R.:  
     on-off rate command attitude control system of manned lunar-landing research vehicle, 9388  
     operational experience with electronic flight control systems of lunar-landing research vehicle, 1496  
   Jarvis, N. L., surface viscosity of polydimethylsiloxane monolayers, 8592  
   Jaws, role of depressor mandibulae muscle in kinesis of avian skull, 11610  
   Jayson, Paul, naval aviation news, 3605  
   JCH series, 4688, 7875-76, 9381, 12448  
   JCS pub. series, 16730  
   Jech, Robert W., fiber of oxides in refractory-metal matrices, 9900  
   JEEP (joint engineering-enforcement project), *see* Operation 66.  
   Jefferies, Kent S., nuclear reactor simulator for nonnuclear testing of space, power systems, 14487  
   Jefferson County, Colo.:  
     geology and uranium deposits of Ralston Buttes district, 15308  
     geology of Eldorado Springs quadrangle, 11165  
   Jefferson County, Ky., soil survey report, 8704  
   Jefferson County, Mont.:  
     geology and igneous petrology, 2367  
     igneous geology, 2358  
   Jefferson National Forest, establish Mount Rogers National Recreation Area as part, report, 2085  
   Jefferson's manual, text, 7593, 10691  
   Jeffrey pine, *see* Pine.  
   Jellison, Robert A., relief, 325, 4579  
   Jelly, how to make at home, 5629  
   Jellyfish:  
     and other such pests, control—  
       hearing, 4635  
       law, 434  
       report, 671  
   Jenkins, H. Neff, odors, air pollution survey, 5440  
   Jenkins, Howard, jr.:  
     addresses, etc.—  
       Aug. 8, 1967, 14525  
       Aug. 16, 1967, 15593  
   Jenkins, Julian L., jr., transient blade motions of rotor with flapping and lead-lag degrees of freedom, 17010  
   Jenkinson, Paul M., edgewise compressive properties of titanium and nickel-base sandwich constructions at elevated temperatures, 8102  
   Jennette, Jo Ellen, project moneywise, role of credit unions in war on poverty, 9451  
   Jensen, Albert T., brief history of New England offshore fisheries, 8021  
   Jerez, Ernesto Sanchez, *see* Sanchez Jerez, Ernesto.  
   Jersey cattle, *see* Cattie.  
   Jersey City, N.J., area wage survey, 11326  
   Jet aircraft, *see* Aircraft.  
   Jet airplanes, *see* Airplanes.  
   Jet ejectors, *see* Ejectors.



- Jet plumes:  
effects of jet plumbing on static stability of rocket models, 14467  
effects on static stability of ballistic bodies at Mach number 6.00, 2691
- Jet shoes, extravehicular space locomotion device, 8483
- Jet streams, *see* Winds.
- Jets:  
circulation control airfoils by means of jets, 7408  
free jet impingement normal to curved surface in vacuum, 9897  
landing task in jet trainer with restricted fields of view, flight investigation, 11553  
nose mounted control, exhausting radially from ogive-cylinder body, interaction effects, 5237  
oblique impingement, effect on pressure fluctuations on flat plate, 14388  
reaction jet damping and attitude control system for spinning body, simulation, 8485  
refraction of sound by jet flow and jet temperature, 14389  
secondary, from 2-dimensional nozzles, for hypersonic control application, 5266  
*see also* Air jets.
- Jetties:  
engineering and design manual, 12475  
groin design variations, 16521
- Jewel bearings, United States trade, 12030
- Jex, H. R., critical tracking task for man-machine research related to operator's effective delay time, 1426
- Jezewski, Donald J., impulsive solution in optimum trajectory problems with bounded thrust magnitude, 12963
- Jicarilla Apache Indian Reservation, ground water resources of southern part and adjacent areas, 17829
- Jigs (machinery):  
aluminum, heat treatment stabilized after welding, 2625
- Jiji, Latif M., heat transfer and temperatures distribution of coalcal porous membrane during planetary entry, 11554
- Job analysis:  
Air Force, impact of computer, 13268  
Air Force officer position evaluation, development of benchmark scales, 5705  
Air Force officers grade requirements project, Criterion Board ratings, predicting, 15891  
airman jobs—  
comparison of merited grade and skill level ratings, 4172  
merited grade versus merited pay rankings, 7339  
computation of group job descriptions from occupational survey data, 11951  
conducting job hazard analysis, occupational safety aid, 9697, 16799  
electronic engineers, job types, 4170  
hazards, safety in industry, instructor outline, 14280  
how to design positions for managers and staff participating in position design studies, 5724  
job descriptions—  
ARNG technician program, NGB pamphlet, change, 11597  
publications, price list, 17133  
job types of Air Force communications officers, 15892
- Job Corps:  
American business is hiring graduates, 2162  
candidates, identifying, admissions manual, 4688  
conservation centers, resident youth worker, examination announcement, 12111  
economic opportunity act amendments—  
law, 498  
narrative summary, 9382  
report, 17581
- Job Corps—Continued  
establishment, act, as amended, 7874  
every girl needs chance to become somebody, 4686  
facts, 4689  
is there a job in your future? 4687  
logistics handbook for Job Corps centers, 7875  
men's and women's centers, facilities maintenance and utilities operations handbook, 7876  
men's urban centers, vocational course entry requirements, 12448  
staff code, 9381  
staff newsletter, 3454  
training disadvantaged young men for employment, they need to learn, can you help, 7878  
VISTA serves, 6168  
women's centers, facts, 10908  
Job Corps Conservation Centers National Conference, report, 17846  
Job descriptions, *see* Job analysis.  
Job evaluation, *see* Job analysis.  
Job printing shop, 15731  
Job satisfaction:  
and intent to re-enlist, effect of selected variables, 7370  
factors, survey of maintenance airmen, 10241  
Job where the action is, 4907  
Jobs, *see* Civil service — Employment — Job analysis — Occupations — Training — Unemployed—Women—Work.  
Joe Wheeler finds a job and learns about Social security, 14647  
answer sheet, 14648  
Joesting, H. R., regional geophysical investigations of Moab-Needles area, Utah, 2368  
Johansen, R. W., reproducible system for evaluating forest fire retardants, 15288  
John, James E. A., attainment of clean vacuum with one-watt refrigerator, 12930  
John Day Lock and Dam:  
compensation to Umatilla, Oreg., for losses due to project—  
law, 485  
report, 838  
John Day River Bridge, Oregon, interstate route 80N, review of circumstances relating to collapse, GAO report, 4877  
John F. Drews (vessel):  
continue coastwise privileges, 312, 4577  
John Fitzgerald Kennedy National Historic Site:  
establish—  
hearing, 9318  
law, 10489  
reports, 9113, 9269  
John Hay, Camp, relinquishment of certain land areas, agreement with Philippines, 11843  
John Muir National Historic Site, general information, 9961  
Johnson, A. I.:  
aquifer properties and well design for artificial recharge site, 1128  
specific yield compilation, for various materials, 16701  
Johnson, A. M., demineralization of saline water by environmentally modulated adsorption, 8212  
Johnson, C. D., optimal and adaptive control theory, 8414  
Johnson, David H., neotropical species of genus *Triplax* Herbst and review of genus *Haematochiton* Gorham, etc., 11608  
Johnson, E. W., ornamental woody vines for southern Great Plains, 1688  
Johnson, Edward E., review of mineral industries (metals and nonmetals except fuels), 6689  
Johnson, G., detectors and calibration methods for remote sensing systems, 9809

# INDEX 1967

- Johnson, Glenn E.:  
hydrogen cyanide from reaction of coal with ammonia, 14349  
use of coal and modified coals as adsorbents for removing organic contaminants from waste waters, 2588
- Johnson, H. M., motions in upper troposphere as revealed by satellite-observed cirrus formations, 9430
- Johnson, H. S., jr., uranium deposits of Moab, Monticello, White Canyon, and Monument Valley districts, Utah and Arizona, 6391
- Johnson, Harold K., testimony, hearings, 16394
- Johnson, Helen W., age of transition, rural youth in a changing society, 17305
- Johnson, Herbert W., growing soybeans, 8828
- Johnson, Hugh A.:  
outdoor recreation and associated research needs for suburban forests, 7888  
publications on outdoor recreation research, 13945  
toward measuring intangible values of natural beauty, 12461
- Johnson, J. A., experimental investigation of direct freeze separation process, etc., 12644
- Johnson, J. E., flammability in unusual atmospheres, preliminary studies of materials in hyperbaric atmospheres containing oxygen, nitrogen, and/or helium, 11675
- Johnson, J. O., determination of strontium-90 in water, 6410
- Johnson, Jesse C., relief, 4580, 9258, 13505, 13561
- Johnson, John, cloud on title to real property, remove, 10479, 10524, 12328
- Johnson, Lyndon B., *see* President of United States.
- Johnson, Marion M., index to manuscript and revised printed opinions of Supreme Court in National Archives, 14512
- Johnson, Nicholas:  
nomination, hearings, 6094  
remarks, Aug. 16, 1967, 16564
- Johnson, Philip C.:  
distribution of bark beetle attacks on ponderosa pine trees in Montana, 11115  
some causes of natural tree mortality in old-growth ponderosa pine stands in western Montana, 4830
- Johnson, Philip L., vegetation of Yukon Flats region, Alaska, 5725
- Johnson, R. L.:  
current meter performance, 4729  
spillway and stilling basin, Lower Monumental Dam, Snake River, Wash., 10949
- Johnson, Robert C., mineral industry of South Carolina, 1404
- Johnson, T. L., thermoluminescent dosimetry systems compared with film badges, 8599
- Johnson, U. Alexis, Foreign Service, briefing, 18227
- Johnson, Von J., seasonal fluctuation in moisture content of pine foliage, 2305
- Johnson, W. M., pot tests of productivity and nutritive status of 3 alpine soils in Wyoming, 2317
- Johnson, Warren B., jr., effect of inversion waves upon sonic-boom propagation, 9427
- Johnson, Wilfrid E.:  
remarks—  
Nov. 3, 1966, 131  
Dec. 8, 1966, 1817  
Apr. 10, 1967, 7441  
Apr. 14, 1967, 8914  
Oct. 26, 1967, 17407
- Johnson, William R., helium pressurant requirements for liquid-hydrogen expulsion using submerged gas injection, 14492
- Johnson act, export sales to countries in default in payment of their obligations to U.S., opinion of Attorney General, 16789
- Johnston, Ralph G., flying helicopters over mountains at night, guidance systems tested in 1965 phase of study, 8089
- Johnston, Richard B., Hitchell site, 10081
- Johnston, Robert L., stress-corrosion cracking of Ti-6Al-4V alloy in methanol, 6900
- Johustown, Pa., war on poverty, examination, hearings, 17665
- Join VISTA and see the world, 10909
- Joiner, Robert C.:  
changes in negotiated health and insurance plans, 2521  
digest of 100 selected health and insurance plans under collective bargaining, 5058
- Joint Chiefs of Staff, JCS pub. series, 16730
- Joint financial management improvement program, annual report, 11144
- Joint Institute for Nuclear Research, Dubna, Russian SFSR, tenth anniversary, Hungarian evaluation, 1300
- Joint Nuclear Research Institute, *see* Joint Institute for Nuclear Research, Dubna, Russian SFSR.
- Joint Publications Research Service:  
catalog, current translations, addendums, 2425, 15344
- JPRS series, 1155-1347, 2426-81, 3113-23, 3130, 3176, 3217-25, 3242, 3374, 3396-97, 3410-11, 3451, 3556, 3687, 3691, 3701-2, 3852, 3882, 3886-87, 3889, 3944-65, 3967-72, 4013-31, 4036, 4931-5032, 6479-6587, 8238-78, 9609-77, 11242-290, 12659-761, 14212-276, 15345-430, 16733-787, 17860-882
- Joint Salary Commission, establish, message from the President, 9069
- Joints:  
braze, high strength, between copper and steel, 14420  
braze joint quality tested electromagnetically, 16964  
brazed aluminum, low-energy gamma ray inspection, 16967  
metals joining, NASA contributions, 6738  
pipe, reinforced in place with fitted aluminum sleeves, 15541, 17954  
plastic surgery, preparation, preservation and use of bones, USSR study, 15347  
silver plating technique seals leaks in thin wall tubing joints, 6699  
spherical, axially misaligned flanges connected, 15543  
spherical pipe joint delivers loads equally to mating flange, 6823  
structural-joint damping, effect of model scale, 18025  
trussed rafter, moisture cycling, 8101  
weld joint damage, test device prevents by eliminating pin forces on unpotted modules, 17970
- Joncas, Basil, or heirs, relief, 610
- Joncas, James, or heirs, relief, 610
- Joncas, Louis, or heirs, relief, 610
- Jones, Alfred, theoretical segregation ratios of qualitatively inherited characters for hexaploid sweetpotato, 5688
- Jones, David L. Cretaceous ammonites from lower part of Matanuska Formation, southern Alaska, 8170
- Jones, Donald R., utilization of mental health manpower, 2829
- Jones, Dorothy M.:  
children who need protection, 1892  
community planning for health, education, and welfare, bibliography, 16540
- Jones, Harry L., relief, 7636
- Jones, John R.:  
regeneration of mixed conifer clearcuttings on Apache National Forest, Ariz., 11126  
site index table for aspen in southern and central Rocky Mountains, 2310
- Jones, Lawrence A.:  
crop-hall insurance 1965, volume, cost, indemnities, 9392  
insurance facts for farmers, 11928

Jones, Lawrence A.—Continued  
 planning farm machinery replacements,  
 4115  
 Jones, LeRoy, size and germination of white  
 pine seed collected at weekly intervals  
 from 5 trees, 12349  
 Jones, Mary G., nomination, hearing, 6095  
 Jones, Milbrey L., sources of audiovisual  
 materials, 7912  
 Jones, Mildred V., wool statistics and re-  
 lated data, 1920-64, 1966 supplement,  
 13249  
 Jones, Owen W., mineral industry of  
 Louisiana, 5114  
 Jones, Paul R., computer usage for evalua-  
 tion of design parameters and cost of heat  
 exchangers, 14324  
 Jones, R. L., electron optical survey of iron  
 oxide films produced in  $H_2O$ ,  $LiOH$ , and  
 $LiOH/EDTA$  solutions, 8594  
 Jones, Richard K., relief, 12334, 13613  
 Jones, Robert A., flow field, etc., investiga-  
 tion of tension shell configurations, 5270  
 Jones, Robert M. plastic buckling of axially  
 compressed eccentrically stiffened cylin-  
 ders, 5249  
 Jones, William I., development digest, 3202  
 Jones, William R., general geology of Santa  
 Rita quadrangle, Grant County, N. Mex.,  
 14171  
 Jones Beach, Long Island, N.Y. aircraft ac-  
 cident, 4369  
 Jongh, Guillermo Fresco De, *see* Fresco De  
 Jongh, Guillermo.  
 Joppa, Robert G., method of calculating wind  
 tunnel factors for tunnels of arbitrary  
 cross-section, 14393  
 Jordahl, Harold C., jr., nomination, hearing,  
 16433  
 Jordan, James S., deer browsing in northern  
 hardwoods after clearcutting, 8109  
 Jordan, Max F., rural industrialization in  
 Ozarks, case study of new shirt plant at  
 Gassville, Ark., 17711  
 Jordan, Peter F., vibration study of pres-  
 surized torus shell, 16907  
 Jordan, Russell W., relief, 324, 819  
 Jordan:  
   agricultural commodities, agreements,  
   2888, 2917  
   capsule facts for Armed Forces, 15906  
   housing, basic information, 6420  
   Ministry of Social Affairs and Labor, 1965-  
   66 annual report, 11279  
   war or peace in Middle East, study mis-  
   sion report, 10837  
 Jordan Ferrando, Maria, relief, 9208, 13499,  
 13594  
 Jorden, Eleanor H.:  
   Vietnamese, basic course—  
   v.1, guide to pronunciation and lessons  
   1-10, 7195  
   v.2, lessons 11-15, 10106  
 Jorgensen, Leland H., measured and com-  
 puted static aerodynamic characteristics  
 of ablating conical teflon models at Mach  
 number 14, 11555  
 Joseph H. Hirschhorn Museum and Sculpture  
 Garden:  
   establish—  
   law, 492  
   reports, 883, 896, 4506  
 Joule-Thomson process in cryogenic refrig-  
 eration systems, 12989  
 Journal bearings, *see* Bearings (machinery).  
 Journals:  
   Antarctic journal of United States, 3031  
   air service, 3095  
   House of Representatives, 89th Cong., 2d  
   sess., 7591  
   JAG journal, 3452  
   journal of research, National Bureau of  
   Standards, 2736, 3458-60  
   Library of Congress quarterly, 3795  
   National Cancer Institute, 3457  
   Senate, 89th Cong., 2d sess., 6050

Journals—Continued  
   Supreme Court, 3924  
   *see also* Medical journals.  
 Journals (machinery), *see* Bearings (ma-  
 chinery).  
 Journey to a future, 12482  
 JPRS, *see* Joint Publications Research Ser-  
 vice.  
 JPRS series, 1155-1347, 2426-81, 3113-23,  
 3130, 3176, 3217-25, 3242, 3374, 3396-97,  
 3410-11, 3451, 3556, 3687, 3691, 3701-2,  
 3852, 3882, 3886-87, 3889, 3944-65, 3967-  
 72, 4013-31, 4036, 4931-5032, 6479-6587,  
 8238-78, 9609-77, 11242-290, 12659-761,  
 14212-276, 15345-430, 16733-787, 17860-  
 882  
 Juab County, Utah, geologic interpretation  
 of gravity and aeromagnetic maps of  
 Tintic Valley area, 8164  
 Judaism, primitive magic, USSR views, 2452  
 Judge Advocate General, Air Force:  
   activities, manual, 10220  
   digest of opinions, 2150  
   law review, 3453  
   report, 7844  
 Judge Advocate General, Army:  
   digest of opinions, 2150  
   legal service, pamphlets, 3461  
   report, 7844  
 Judge Advocate General, Navy:  
   digest of opinions, 2150  
 JAG journal, 3452  
   organization and functions of office, 15633  
   report, 7844  
 Judge Advocate General's Corps, Navy:  
   establish—  
   hearing, 16310  
   report, 16269  
 Judge Advocates General of Armed Forces:  
   boards of review, court martial reports,  
   holdings and decisions, 4671  
   digest of opinions, 2150  
 Judges:  
   District of Columbia Court of Appeals,  
   increase number, report, 13638  
 Federal—  
   appointment records, pamphlet to ac-  
   company microcopy, Idaho, Territory  
   and State, 18071  
   judicial fitness, removal, retirement, and  
   disciplining procedures, hearings,  
   7819  
   Federal magistrates act, hearings, 12416  
   omnibus judgeship act, amend rel. to east-  
   ern district of Pennsylvania—  
   law, 17544  
   reports, 13834, 16236  
   territorial district courts, retirement,  
   hearings, 2054  
 Judgments, *see* Actions at law—Claims—  
   *also* names of courts, etc., rendering judg-  
   ments—*also* special subjects.  
 Judicial administration, hearings, 2054  
 Judicial center, *see* Federal Judicial Center.  
 Judicial Conference of United States:  
   proceedings—  
   departmental editions, 14730-731  
   document editions, 14922, 14928  
   reports, 8800  
 Judicial procedure, *see* Civil procedure.  
 Judicial review, constitutionality of grants  
 or loans under certain acts, report, 10729  
 Judiciary, *see* Courts of United States—Justice  
 Department.  
 Judiciary Committee, House:  
   activities, summary, 4549  
   additional funds, provide, report, 2032  
   calendar, 3480  
   committee prints, 4549, 10662, 16334  
   hearings, 742, 2054, 4548, 7750-51, 10661,  
   12306, 15044, 16332, 17606  
   investigations and studies—  
   authorization, reports, 6014, 7716, 14983  
   expenses, report, 7721  
   school desegregation, referring investi-  
   gation, 4559

# INDEX 1967

- Judiciary Committee, House—Continued  
reports, 529, 531-616, 619, 635, 637, 662,  
678, 688, 4498-99, 7705-7, 7614-45,  
7654-62, 7683-84, 9079-80, 9082, 9084,  
9093-9095, 9121, 10529-552, 10609-610,  
12210-239, 12257-258, 12279, 12282-  
283, 13560-625, 13647-648, 13670-  
13673, 13680-681, 14931, 14965, 14975-  
976, 14984, 14990, 16164, 16166-225,  
16235-236, 16248, 16254, 16259, 17571,  
17578
- Judiciary Committee, Senate:  
calendar, 3498  
committee prints, 2126, 2129-30, 4647,  
6114, 12414, 13872, 15168-169  
hearings, 957-958, 2125, 2127-28, 2131-  
32, 4645-46, 4648-49, 6115-19, 7816,  
7818-22, 9324, 10856-858, 12415-418,  
13871, 13873-876, 15165-167, 16419-  
425, 17658-662
- internal security subcommittee hearings  
and reports—  
1956-60, index, 15169  
1961-66, index, 15168
- Investigations and studies—  
administrative practice and procedure  
in Federal agencies—  
authorization, report, 4616  
expenses, report, 15099  
report on findings, 9280  
antitrust and monopoly laws, adminis-  
tration, authorization, report, 4617  
constitutional amendments—  
authorization, report, 4618  
report on actions and recommenda-  
tions 10730  
constitutional rights, authorization and  
expenses, report, 6069  
constitutional separation of powers be-  
tween executive, judicial, and legisla-  
tive branches of Govt., authorization,  
report, 4621
- criminal laws and procedures—  
authorization, report, 4602  
report on subcommittee work, 9284  
Federal charters, holidays, and celebra-  
tions authorization, report, 4601  
Federal judicial system—  
authorization and expenses, report,  
6070  
expenses, report, 15098  
report on findings, 9287  
immigration and naturalization—  
authorization, report, 4603  
report on findings, etc., 9286  
internal security laws, etc., adminis-  
tration, authorization, report, 4619  
juvenile delinquency, authorization, re-  
port, 6071  
national penitentiaries, authorization,  
report, 4607  
Patent Office administration and patent  
statutes, authorization, report, 4604  
refugees and escapees, authorization,  
report, 4620  
revision and codification of U.S. stat-  
utes, authorization, report, 4608  
reports, 768-781, 784-872, 876-878, 894,  
909, 918, 923-924, 928-930, 2081, 4576,  
4578-81, 4583, 4587, 4589, 7776, 9191-  
9249, 9251-62, 9280, 9284-93, 10705-  
725, 10729-730, 10743, 10771-780,  
10793, 12325-326, 12329-358, 12363,  
12376-377, 12379, 12393-395, 13728-  
774, 13776-789, 13810-811, 13831,  
13833-834, 15062, 15066-73, 15075-77,  
15085, 15089, 15106, 15110, 15121,  
17621-622
- Revision and Codification Subcommittee,  
résumé of activities, report, 10743
- Judith Basin County, Mont., soil survey re-  
port of area, 7136
- Judy, R. W., jr., stress-corrosion cracking  
characteristics of alloys of titanium in salt  
water, 17091
- Juices, *see* Fruit juices,
- July rain, Soviet motion picture reviewed,  
16771
- Jun, Becky, relief, 294, 587, 812
- June bugs, white grubs in forest tree nur-  
series and plantations, 12567
- Junior colleges, science education, report,  
16343
- Junior Federal assistant:  
examination, 4402  
job opportunities throughout United  
States, 13446
- Junior high schools, public, science, teaching,  
7909
- Junior ROTC Manual, 17385
- Juniper, *see* Cedar.
- Junkyards:  
along Federal-aid highways, control, 1968  
authorization—  
hearings, 15174  
reports, 15126, 16272
- Jupiter (planet):  
high-thrust round-trip trajectories, 5233  
physical properties, handbook, 11424  
round-trip trajectories to moons of Jupi-  
ter, 18017  
use of Jupiter gravity turns for tailoring  
trajectories to Saturn with considera-  
tion of launch opportunities, 2692
- Jurassic period:  
Carmel formation of Zion Park region,  
southwestern Utah, review, 11168  
Morrison formation in Colorado Plateau  
region, petrology, 12613  
Twin Creek limestone (Jurassic) in west-  
ern Interior of United States, 8168
- Jurisdiction:  
Federal Power Commission, amend act,  
hearings, 16401  
Fort Lyon Veterans Hospital, retrocede to  
Colorado—  
law, 368  
report, 898  
*see also* Venue.
- Jury:  
duty, women, eligibility, laws, 5603  
Federal, improve machinery for selection,  
hearings, 16423  
selection—  
eliminate discrimination, message from  
the President, 12199  
protect civil rights—  
hearings, 17658  
report, 4498
- Justice:  
administration—  
Memphis-Shelby County, Tenn., civil  
rights report, 14851  
Starr County, Tex., civil rights aspects,  
13433  
1st annual report of Legal Services Pro-  
gram of Office of Economic Opportunity,  
4690  
juvenile justice administration, etc., task  
force report, President's Commission on  
Law Enforcement and Administration  
of Justice, 11703  
law enforcement and criminal justice as-  
sistance act of 1967, reports, 13670,  
13685  
legal services in action, the poor seek jus-  
tice, 12449
- Justice Department:  
annual report, 9678  
antitrust activities, 8290  
appropriations, 1967, law, 501  
appropriations, 1968—  
hearings, 10632, 16390  
reports, 10616, 16372
- Attorney General—  
appointment of U.S. marshals, hearings,  
2054  
nomination of Ramsey Clark, hearing,  
9324  
Attorney General's memorandum on pub-  
lic information section of administrative  
procedure act, 12762

Justice Department—Continued

- Criminal Division, efforts against organized crime, hearings, 13706  
handling of VA mortgage foreclosures—  
hearings, 15031  
report, 14947  
judicial administration, code of Federal  
regulations, 6283  
land conveyance to Ralph J. Litchard,  
13579, 13776, 14891  
opinions of Attorney General, 3660, 8279,  
16789  
policies and procedures for collecting judg-  
ments, fines, etc., GAO review, 11154  
report under law consenting to interstate  
compact to conserve oil and gas, 15431  
Juvenile courts:  
juvenile delinquency and youth crime, ad-  
ministration of juvenile justice, etc.,  
task force report, President's Commis-  
sion on Law Enforcement and Adminis-  
tration of Justice, 11703  
statistics, 185  
Juvenile delinquency:  
and youth crime, task force report, Presi-  
dent's Commission on Law Enforcement  
and Administration of Justice, 11703  
and youth offenses control act, summaries  
of training projects, 7233  
control and typological approaches, status  
report, 17166  
correction series, 13180-182  
corrections, task force report, President's  
Commission on Law Enforcement and  
Administration of Justice, 10031  
crime and delinquency abstracts (periodi-  
cal), 3163  
handling of juveniles from offense to dis-  
position, 13180-181  
instructor's guide, 13182  
investigation, authorization, report, 6071  
learning in action, training and demon-  
stration projects, selected issues, 2973  
nonmetropolitan delinquency, action pro-  
gram, 11906  
prevention act of 1967, message from the  
President, 5999  
prevention and control act of 1967—  
hearings, 16324  
report, 16249  
public institutions for delinquent children,  
personnel and personnel practices, sur-  
vey, 4367  
public training schools serving delinquent  
children, directory, 4364  
re-educating confined delinquents, 2798  
supplement, 2799  
studies in delinquency series, 7232, 8791,  
10135  
Juvenile detention homes, *see* Imprisonment.  
Juvenile literature, *see* Children's literature.  
Juveniles, *see* Youth.

K

- Kachadoorian, Reuben:  
effects of earthquake of Mar. 27, 1964 on  
communities of Kodiak and nearby  
islands, 11176  
effects of Truckee, Calif., earthquake of  
Sept. 12, 1966, 9565  
Kaestner, Gottfried R., relief, 556  
Kagarise, R. E.:  
intensity measurements of some funda-  
mental absorption bands of H<sub>2</sub>O, D<sub>2</sub>O,  
CS<sub>2</sub>, 1550  
performance capabilities of small grating  
spectrometers, 1549  
Kahrman, James S., relief, 263, 546, 860  
Kaiden, Morris L., relief, 12224  
Kalden, Vivian C., relief, 12225  
Kainen, Jacob, etchings of Canaletto, 10080  
Kale, caterpillar control in South, 15847

- Kalih, F.:  
navigation accuracy for infrared equipped  
Apollo aircraft for reentry tracking,  
1507  
optical and microwave communications, a  
comparison, 11529  
Kalman filters, application to error correc-  
tion of inertial guidance, 6904  
Kainins, Martin A., light-induced free rad-  
icals in wood, 4846  
Kamel, Adel M., stability of rubble-mound  
tsunami barrier, Hilo Harbor, Hawaii, hy-  
draulic model investigation, 16526  
Kangieser, Paul C., climates of States, Ari-  
zona, 4746  
Kaniuka, R. P., agricultural research, 3000  
Kannel, William B., epidemiology of stroke,  
11726  
Kansas:  
area measurement reports, 150, 4266  
bluestem, Flint Hills, pasture report,  
14692  
census of agriculture, 1964, State and  
county statistics, 13406  
census of mineral industries, 1963, area  
statistics, 4287  
climatological data, 3096  
county business patterns, 1863, 12048  
electric rate book, 1053  
mineral industry, minerals yearbook chap-  
ter, 6653  
postal map, 15655  
precipitation data, hourly, 3401  
sedimentary rocks, chemical composition,  
14172  
Kansas City, Kans., area wage survey, 8305  
Kansas City, Mo., area wage survey, 8305  
Karatapanis, Chrisanthos S., relief, 16202  
Kardon, Merrill B., simple portable sono-  
micrometer, 1741  
Karidakis, Maria, relief, 297, 589, 863  
Karitas, James J., determining costs of serv-  
icing wholesale Institutional grocery or-  
ders, 4120  
Karpinos, Bernard D.:  
profiles of military chargeable accessions,  
10296  
results of examination of youths for mili-  
tary service, 8900  
Karr, Clarence, Jr.:  
characterization of resin fraction from  
various low-temperature tar pitches,  
6632  
identification of distillable paraffins, etc.,  
from low-temperature bituminous coal  
tar, 12795  
Kartluke, Herbert, complex fatigue loading,  
5748  
Karyokinesis, mitotic activity in cells of  
human tissue cultures, USSR study, 4963  
Kascak, Albert F., estimates of local and  
average fuel temperatures in gaseous nu-  
clear rocket engine, 16998  
Katchman, Bernard J., measurement of total  
body hemoglobin by bloodless techniques,  
10232  
Katell, Sidney, bibliography of investment  
and operating costs for chemical and petro-  
leum plants, 14328  
Katsanis, Theodore, velocities and stream-  
lines for 2-dimensional, incompressible flow  
in axial blade rows, 5245  
Kattegat:  
lights and fog signals, list, changes, 1539,  
7005, 11645, 18101  
sailing directions, change, 17070  
Katz, Jacob E.:  
addresses—  
Oct. 27, 1966, 144  
Apr. 18, 1967, 8924  
June 1, 1967, 10329  
Aug. 22, 1967, 15985  
Katz, Lawrence G., climatological probability  
of aircraft icing, 7318

# INDEX 1967

Katzenbach, Nicholas deB.:  
addresses—  
Dec. 9, 1966, 10099  
Sept. 30, 1967, 18231  
Kauai, plantation timber, 16665  
Kaufman, Richard F., urban America, goals  
and problems, 14921  
Kaufman, Samuel, effect of cation on solubil-  
ization by oil-soluble sulfonates, etc.,  
17095  
Kaufman, William, lease, Clover-Rush Run  
oilfield, Roane County, W. Va., reservoir  
study, 14347  
Kaye, William G., address, Nov. 19, 1966,  
1825  
Kayser, Frederic G.:  
foreign trade regulations of—  
Guyana, 230  
Netherlands Antilles, 13460  
Surinam, 4441, 12134  
Kazakh Soviet Socialist Republic:  
Academy of Sciences—  
activities, 8250, 12677  
projects planned, 12753  
scientific research, resolution, 4965  
dam construction begun, 12670  
parameters of jet streams and forecasting  
instructions, 4994  
Kazakhstan, *see* Kazakh Soviet Socialist  
Republic  
Kazan University, USSR, general informa-  
tion, 5029  
Kearns, Thomas F., oil and gas lease, rein-  
state, report, 10740  
Keathley, S. M., stability theory of multistep  
methods, 11523  
Keeler, Charles M.:  
densification of alpine snow covers, 15933  
mechanical properties of alpine snow, Mon-  
tana, 13292  
Keenan, Hugh C., Jr., how to obtain death  
certificates, etc., 10701  
Keep your drinking water safe, 5443  
Keessing, Wouter, relief, 12343  
Keipert, Frank A., STARS II, fully auto-  
matic satellite data processor, 11527  
Keku Island, stratigraphy, 12600  
Kelkar, Vasant S., vibrations of hollow elas-  
tic cylinder bonded to thin casing of  
different material, 18048  
Keller, E. L., uranium hexafluoride, handling  
procedures & container criteria, 1796,  
13340  
Kellogg, Remington, fossil marine mammals  
from Miocene Calvert Formation of Mary-  
land and Virginia, 1530  
Kelly, James E., decayed, missing, and filled  
teeth in adults, 1960-62, United States,  
5470  
Kelly, James R., V/STOL height-control re-  
quirements for hovering, etc., under visual  
conditions, 11524  
Kelly, William P., Jr., nomination, hearing,  
10864  
Kelsall, T., stellar evolution, calibration of  
Hertzsprung-Russell diagram in terms of  
age and mass for B and A stars, 2702  
Kelso Junction quadrangle, Mich., geology,  
6392  
Kemp, James R., relief, 292, 614, 811  
Kemp, Robert G., selling in Finland, 10461  
Kenahan, Charles B., effect of ultrasonics  
on electrodeposition of copper alloys from  
cyanide electrolytes, 9787  
Kendall, Nicholas A., mineral industry of  
Mississippi, 2558  
Kendall, William N. W., air-truck coordina-  
tion and competition, 11231  
Kennan, George F., statement on Communist  
world in 1967, hearing, 6101  
Kennard, Earle H., irrotational flow of fric-  
tionless fluids, 11682  
Kennedy, John F.:  
prominent American stamp, dedication  
(address), 11690

Kennedy, John F.—Continued  
13-cent—  
aerogramme (poster), 10025  
regular postage stamp (poster), 10026  
Kennedy, Marjorie D., confectionery manu-  
facturers' sales and distribution, 7449,  
10328  
Kennedy, Richard M., market for U.S. prod-  
ucts in Chile, 2417  
Kennedy, Cape, interagency motor pool, uti-  
lization of motor vehicles, GSA and NASA,  
GAO report, 2353  
Kennedy round, *see* General agreement on  
tariffs and trade  
Kennesaw Mountain National Battlefield  
Park, general information, 9962  
Kennelick division, *see* Yakima project  
Kennon, F. W., hydrologic effects of small  
reservoirs in Sandstone Creek watershed,  
Beckham and Roger Mills Counties, wes-  
tern Oklahoma, 2376  
Kent, Paul R.:  
oxygen breathing effects upon night vision  
thresholds, 11347  
visual resolution underwater, 14317  
Kentucky:  
admission to Union, recognize anniversary,  
report, 10779  
Appalachian region, hardwood lumber  
production, costs and returns, 4850  
Bluegrass area and Pennyroyal area, com-  
mercial tobacco-livestock farms, costs  
and returns, 16490  
calymenid and other Ordovician trilobites,  
16698  
census of agriculture, 1964, State and  
county statistics, 16039  
census of manufactures, 1963, area sta-  
tistics, 1839  
census of mineral industries, 1963, area  
statistics, 5828  
climatological data, 3096  
contributions to Ordovician paleontology  
of Kentucky (series), 16697-698  
county business patterns, 4311, 13373,  
14819  
east-central, Otter Creek coral bed and its  
fauna, 6394  
eastern, strip-mining, land disturbances,  
8077, 17801  
electric rate book, 1054  
lumber industry, 11136  
mineral industry, minerals yearbook chap-  
ter, 2555  
northern, air resource management pro-  
gram, air pollution survey, 11717  
postal map, 15656  
precipitation data, hourly, 3401  
silicified Middle Ordovician brachiopods  
from Kentucky, 16697  
soil survey laboratory data and descrip-  
tions, 13125  
Kenya:  
agricultural commodities, agreement,  
14686  
Army area handbook, 15941  
labor conditions, 1376  
mineral industry, minerals yearbook chap-  
ter, 8355  
Tanzania boundary, study, 1631  
Keogh, Eugene J., award of Order of Isabella  
the Catholic, authorize acceptance, 4493  
Kerbel, L. Ye., Soviet sculptor, transcript of  
conversation on Chinese artists, traditions,  
and cultural revolution and Red Cross,  
4948  
Kerchner, Orval:  
costs of transporting bulk and packaged  
milk by truck, 8836  
utilization of plant capacity in Minnesota  
dairy manufacturing firms, 12454  
Kermit, Tex., brackish well water reverse  
osmosis tests, 11217  
Kern, D. Q., liquid-liquid heat transfer for  
large-scale desalination, 14200  
Kern National Wildlife Refuge, general in-  
formation, 8031



- Kern River and Valley, ground water geology and hydrology of alluvial-fan area, 1116
- Kerns, William H.:  
salt, 6690  
water, 1417
- Kerr, Arnold D., bending of circular plates confining incompressible liquid, 97
- Kershner, Alan M., test correlates of Air Force weather forecaster proficiency, 8863
- Kerslake, William R., oxide-cathode durability in mercury electron-bombardment ion thruster, 6867
- Kessler, E. L., design for control of projectile flight characteristics, engineering design handbook, 1751
- Kesaler, Edwin, on continuity of water substance, 15231
- Kessler, T., spark-source mass spectra of several aromatic hydrocarbons using spinning electrode, 11350
- Kesten, A. S., radiant heat transfer in fuel region of gaseous nuclear rocket engine, 5183
- Ketchum, Harry W., address, Feb. 1, 1967, 5807
- Key deer, *see* Deer.
- Key to meteorological records documentation, 6227-28, 13990, 16536
- Key West National Wildlife Refuge, birds of Florida Keys national wildlife refuges, Hist. 17780
- Key word in context, *see* Indexes.
- Keyes, Ian W., New Zealand artifacts from U.S. transit of Venus expedition, 6972
- Keyes, William F., mineral industry of South-West Africa, 8364
- Keys, *see* Locks and keys.
- Keyserling, Leon H., how well is employment act of 1946 achieving its goal? 5043
- Keyserling, Mary D.:  
addresses, etc.—  
July 27, 1966, 1668, 10142, 17296  
Jan. 25, 1967, 8798  
June 17, 1967, 11908
- Khabarovsk, Russian SFSR, medical institute, recent developments, 2450
- Khar'kov Scientific Research Institute of Prosthesis, Orthopedics and Traumatology imeni M. I. Sitenko, anniversary, 9667
- Kidnaping, laws, compilation, 1982
- Kidneys:  
airmen who apply insecticides from aircraft may suffer ill-defined effects, 17410  
renal blood flow, effect of hydrazine, preliminary study, 11967  
renal disease and hypertension, Public Health Service cooperative studies, conferences, proceedings, 17160  
renal function, effects of monomethylhydrazine, 15901  
renal response of man in oxygen-helium atmosphere, 87  
salmonid fishes, bacterial kidney diseases, 4802  
sodium and water excretion and renal hemodynamics during lower body negative, 14770  
*see also* Artificial kidneys.
- Kieffer, L. J., bibliography of low energy electron collision cross section data, 8521
- Kier, Porter M.:  
echinoids of Dominica, 5316  
new echinoid from Cretaceous Pierre shale of eastern Wyoming, 2363
- Kiernan, Owen B., statement, Oct. 5, 1966, 14853
- Klewit, J. L., synthetic resin primer for coal-tar enamel, 10073
- Kli Ja Chung, *see* Chung, Kli Ja.
- Killing unwanted West Indies mahogany trees by peeling and frilling, 12573
- Kiln-drying, *see* Kilns.
- Kilas, dried softwood lumber, dimensional changes after surfacing and during storage, 2300
- Kilpatrick, Jack F., Muskogean charm songs among Oklahoma Cherokees, 6973
- Kim Bong Oh, *see* Bong Oh Kim.
- Kim Kap Yung, *see* Yung, Kim Kap.
- Kim Kin Soon, relief, 542
- Kim, Yung Mi, relief, 353
- Kimbell, Charles L., mineral industry of Argentina, 15466
- Kimel, William R., radiation shielding, etc., applied to nuclear defense planning, 4384
- Kincald, John F.:  
addresses—  
Sept. 22, 1967, 16091  
Oct. 17, 1967, 17472
- Kindergarten, enrollment of children under 6, 10937
- Kinetics:  
cosine law in kinetic theory of gases, 9928  
excess solute precipitation in liquid sodium solutions, 5359  
fluorination of beryllium, 12928  
gas synthesis using recycle systems, 9790  
hydrate and freezing processes, 6446  
hydrate reaction, studies, 6447  
parameters of 6 ablation polymers, determination by thermogravimetric analysis, 9896  
properties, thermal decomposition of  $KMnO_4$ , result of  $CO_2$ -irradiation, 11570  
thermodynamic corrosion, USSR study, 1241  
*see also* Chemical reactions.
- King, A. E., electrical component technology for space power systems, design studies, 15964-965, 17399
- King, Danny L., hydraulic model studies for Morrow Point Dam, 13103
- King, David A., activity patterns of campers, 8071
- King, Edward G., thermodynamic properties of forsterite and serpentine, 11387
- King, Joseph H., models of trapped radiation environment, low energy protons, 16929
- King, Norman D., Ryukyu Islands, bibliography, 10267
- King, Warren B. application of automatic data processing to study of seabirds, numerical coding, 14536
- King, Willis, Division of Fishery Services, annual report, 16625
- King Cove, Alaska:  
harbor, engineer report—  
departmental edition, 9420  
document edition, 9180
- King crabs:  
fisheries, agreement with—  
Japan, 7185  
Union of Soviet Socialist Republics, 11857
- Kingdom of Libya, *see* Libya.
- Kingdom of Morocco, *see* Morocco.
- Kings Canyon National Park, map, 5321
- Kingsley, Neal P., pulpwood production in Northeast, 4857, 8122, 14146
- Kingsolver, John M., bibliography of insect-plant associational studies, 8804
- Kinkel, Arthur K., Jr., Ore Knob copper deposit, N.C., and other massive sulfide deposits of Appalachians, 15310
- Kinnen, Edwin:  
Lyapunov functions—  
for nonlinear differential equations, 5180  
from auxiliary exact differential equations, 11421
- Kluney, Edward C., annual report, 1965, Division of Fishery Service, 17784
- Klaney, Jo Ann S., color induction using asynchronous flashes, 12794
- Klinney County, Tex., soil survey report, 11806
- Klwa County, Colo., Big Sandy Creek Valley, geology and ground-water resources, 11191
- Kirby, James G., crude petroleum and petroleum products, 5101



# INDEX 1967

- Kirby, Robert M., soil survey of Prince Georges County, Md., 11808
- Kirghiz Soviet Socialist Republic, child labor in cotton and tobacco fields, deplorable, USSR study, 1172
- Kirk, I. W., quick-change sacking attachment for harvesting cotton research plots, 13198
- Kirk, Jerry V., VTOL aircraft with jet-ejector system for lift augmentation, 2706
- Kirk, Raymond J., infrared horizon definition, state-of-the-art report, 8416
- Kirkham, Frank S., airframe-propulsion-system integration for Mach 6 cruise vehicles, 18010
- Kirkpatrick, Dick, U.S. Supreme Court upsets tradition, 6052
- Kirsteuer, Ernst, Bredin-Archbold-Smithsonian biological survey of Dominica, 3, marine archannelids from Dominica, 11612
- Kirwin National Wildlife Refuge, general information, 17776
- Kislowski, E., generalized rotor performance, 7411
- Kiskokwim River and Valley, White Mountain mercury deposit in river basin, investigations, 6677
- Kislovodsk, Russian SFSR, astronomical observatory, largest coronagraph installed, 15351
- Kister, L. R., salinity of ground water in western Pinal County, Ariz., 1131
- Kistler, Ronald W., structure and metamorphism in Mono Craters quadrangle, Calif., 4887
- Kitchens, school lunch, layout, equipment, and work methods, 4121
- Kites, moored, Federal aviation regulations, 10997
- Kits, Federal-State programs for developing human and community resources, 6248 see also Dental kits.
- Kittanning, Pa., acid mine water reverse osmosis test, 4915
- Kivel, Joseph, microbial inhibition systems employing radiation (MISER), 8908
- Klahr, Carl N., fabrication of semiconductor devices by neutron transmutation doping, 12010
- Klaiber, Robert J., physical and optical properties of projection screens, 7024
- Klamath Forest National Wildlife Refuge, birds, list, 15262
- Klamath River and Valley:  
basin, magnitude and frequency of floods, 14177  
Klamath Basin national wildlife refuges, birds, list, 15262  
vicinity of Klamath, Calif., engineer report—  
departmental edition, 1026  
document edition, 522
- Klapthor, Margaret B., White House china of Lincoln Administration, 15600
- Kleberg County, Tex., civil rights status of Spanish-speaking Americans, 14848
- Kleespies, Ernst K.:  
electrolytic methods for producing titanium and titanium alloys, 2579  
reaction rates of titanium-oxygen alloy system and titanium chlorides in molten sodium chloride, 14359
- Kleiman, Louis A., analytical approach to determination of stellar fields of view, 11557
- Klein, Ike I., claim against Hungary, 13577
- Klein, Lawrence R., monthly labor review, 3576
- Klingbeil, A. A.:  
know the soil you build on, 11927  
land-capability classification, 1678
- Klinger, F. L.:  
mineral industry of—  
Denmark, 8346
- Klinger, F. L.—Continued  
mineral industry of—continued  
Italy, 14333  
Norway, 11363  
Sweden, 15469
- Klingman, D. L., using phenoxy herbicides effectively, 11929
- Klingsberg, Vera I., scientists and engineers from abroad, 9966
- Kloos, Edwin J., machine test method for measuring carbon dioxide in inspired air of self-contained breathing apparatus, 1413
- Klucher, Thomas M., solar-cell space power systems using spectral dispersion, 16992
- Klyce, Donald F.:  
mineral industry of—  
Indiana, 6651  
Michigan, 5117
- Knee, hinge, adjustable, permits movement in plaster cast, 9829
- Knee position recorder for sawmill carriage headblocks, 2297
- Knight, Herbert A.:  
North Carolina's timber, 2338  
Virginia's timber, 15296
- Knight, John T.:  
claim against U.S., 7617  
relief, 858
- Knit goods, see Textiles—also names of clothing.
- Knobcone pine, see Pine.
- Knobs, Federal Item Identification guide, 17697
- Knop hardness, see Hardness.
- Knostman, Richard W., analysis of Pacific Northwest lead-zinc industry, 11352
- Knott, Albert, designing shelter in new buildings, 7530
- Know the soil you build on, 11927
- Knutson, Robert G., Lake States veneer log production shows increase, 14096
- Kobayashi, A. S., plane-stress, elastic-plastic states in vicinity of crack tips, 9816
- Kobayashi, Shigo, prebuckling deformation influence on buckling load of truncated conical shells, 5187
- Koch, George S., Jr.:  
geometry of metal distribution in 5 veins of Fresno mine, Zacatecas, Mexico, 9771  
gold distribution in diamond-drill core from Homestake Mine, Lead, S. Dak., 6679
- Koch, Peter, straight studs from southern pine veneer cores, 8120
- Koch, Robert K., separation of HF from HF-SiF<sub>4</sub>-H<sub>2</sub>O mixtures, 2581
- Kodiak Island, earthquake of Mar. 27, 1964, effects, 1121, 11176
- Koenig, Harry J., method of relating modal damping to local dampers in lumped-parameter systems, 5228
- Koenig, L. R., handbook of physical properties of planet Venus, 14404
- Koenig, Robert W., inlet sensitivity study for supersonic transport, 8496
- Kofa Game Range, mammals, list, 11088
- Kofsky, Milton G., radial-inflow turbine performance evaluation over range of speeds, 2716
- Kogon, Maurice, market for U.S. products in Taiwan, 17853
- Kohl, Jessie W., U.S. Naval Submarine Medical Center, etc., summaries or research reported, 16846
- Kohl, W. H., requirements placed on electron tubes for space applications, 5231
- Kohler, Foy D., address, Feb. 17, 1967, 10099
- Kolb, Fred W., Jr., relief, 13583, 17493
- Kolbeck, Jean M., aeronautics, bibliography, 4169
- Kolesnev, S. G., Soviet scientist, biography, 1330

- Kollar, K. L., regional construction requirements for water and wastewater facilities, 17417
- Kollmann, George, mechanism of action of AET, protection of DNA against ionizing radiation by GED, 5713
- Kollmeyer, Ronald C., oceanography of Labrador Sea in vicinity of Hudson Strait, 10445
- Kolodrubetz, Walter W., private employee-benefit plans, 5689
- Kolometrousis, Maria, relief, 13616
- Kolosovs, H. J., free-surface instability correlations and roughness concentration effects on flow, 4892
- Komar, Charles A., effects of ultrasonic energy on fluid flow in porous media, 14336
- Komer, Robert W., other war in Vietnam, progress report, 1627
- Kommunist (periodical): translations, 3947
- Kommunist Moldavi (periodical): translations, 11273
- Komons, Nick A., science and Air Force, history of Air Force Office of Scientific Research, 7335
- Konev, I., reminiscences on battles for Moscow, USSR studies, 1287
- Konkle, Ward W., agricultural science review, 3001
- Koon Chew Ho, see Ho Koon Chew.
- Koontz, W. A., multipurpose data acquisition system for instrumentation of nearshore environment, 16522
- Kootenai Indians:  
Confederated Salish and Kootenai Tribes of Flathead Reservation, funds, disposition—  
law, 10480  
reports, 7779, 9115
- Kopelson, Sheldon, rate augmented digital-to-analog converter, 18036
- Koral, Kenneth F., high-voltage characteristics of large-gap coaxial-cylinder electrode, 9908
- Kordes, Eldon E., preliminary evaluation of XB-70 airplane encounters with high-altitude turbulence, 18038
- Korea:  
background notes, 10092  
military personnel of U.S., helpful hints, Army pamphlet, 14798
- North—  
mineral industry, minerals yearbook chapter, 1402  
translations, 3963
- Republic—  
agricultural commodities, agreement, 8747, 17229  
cotton textiles, trade, agreement, 7183  
exchange of official publications, agreement, 5543  
foreign trade regulations, 16106  
loan of additional destroyer, report, 16271  
Peace Corps, volunteers, agreement, 2928  
status of Korean Service Corps, agreement, 11864  
U.S. Armed Forces, facilities and areas and status, agreement, 8726  
sailing directions, change, 11640  
South, see above, Republic.
- Korean Service Corps, status, agreement, 11864
- Korean War, 1950-53, Marine Corps Reserve mobilization, 17906
- Korman, Samuel, some new metal and metal-ceramic composites, 5194
- Kornilov, Nicholas A., notes on Aradidae in National Museum, 4, Hemiptera: Heteroptera, 5307
- Kornicker, Louis S.:  
Euphiomedes arostrata, new myodocopid ostracod, 6954
- Kornicker, Louis S.—Continued  
myodocopid ostracod families Philomedidae and Pseudophilomedidae, 6963  
myodocopid ostracod from—  
Great Bahama Bank, 8543  
Red Sea, 5315  
species of Sarsella (Ostracoda: Myodocopa), 6971
- Korth Transfer, accident, 1153
- Kosmahl, H. G., three-dimensional plasma acceleration through axisymmetric diverging magnetic fields, etc., 5256
- Kosmos, see Satellites.
- Kossoris, M. D., work performance of physically impaired workers, 14612
- Kost, Keith, public health reports, 3782
- Kotok, E. S., tree characteristics influence 2 x 4 stud yield of lodgepole pine, 16654
- Kousoulas, Angelle, relief, 16181, 17529
- Kovachina, T. A., kinetics of excess solute precipitation in liquid sodium solutions, 5359
- Kovar, Mary G., charges for care in institutions for aged and chronically ill, 17169
- Kowalczyk, George I., Arkansas Titan II missile site disaster actuarial analysis of survivor benefits payable, 7115
- Kraft, Ivor, helping low-income families through parent education, survey of research, 10402
- Kramer, Fritz, pressure effect of sound wave on cryogenic fluid, 12940
- Kramer, Morton, usage of psychiatric facilities for community mental health programs and related research, 5465
- Krascella, N. L., absorptive properties of small particles and heavy-atom gases, 5182
- Krasnolarsk Dam, hydroelectric projects, bibliography, 8665
- Krebill, R. G., Gymnosporangium claviforme in witches'-brooms of Juniperus communis, 8809
- Kreichelt, Thomas E., air pollution aspects of tepee burners, 1572
- Kreitlow, K. W., lawn diseases, how to control them, 11931
- Krejsa, Eugene A., frequency response of forced-flow single-tube boiler, 12952
- Krickich, Joseph:  
mineral industry of—  
New Jersey, 1401  
Ohio, 6663
- Krill, see Plankton.
- Krislov, Joseph, State and local government retirement systems, etc., 2868
- Kroll, John, general purpose airborne simulator, 5161
- Krombein, Karl V., trap-nesting wasps and bees, 8685
- Kromer, George, W.:  
fatty acids, expanding market for fats and oils, 10921  
talks, Nov. 17, 1966, 4704-5  
U.S. cottonseed industry adjusting to short 1966 crop, 989
- Kronenberg, Stanley, high-intensity radiation dosimetry with SEMIRAD, 4219A
- Kronfeld, Sylvia, relief, 562
- Krueger, Kenneth W., investigating dominance in Douglas-fir stands, 16662
- Krueger, R. E., selecting hydraulic turbines, 2847
- Krueger, Roger C., factors influencing heat transfer to liquid-propellant rocket-thrust-chamber coolant channels, 1484
- Krug, Mary M., Smithsonian torch, 8684
- Krugman, Stanley L.:  
artificial ripening of sugar pine seeds, 4856  
freezing spring temperatures damage knob-cone pine, 8117
- Krull, Walter V.:  
planning layout and arrangement for safety, 8292  
responsibility for safety, 8287
- Krusos, J. N., ceramic heat shields for lifting reentry vehicles, 15509

Krypton isotopes, krypton-85, development as universal tracer, final report, 13335  
 Krzykowski, Kazimierz (Casimer): relief, 781  
 Krzywicki, Harry J.: body composition of military population, Ft. Carson, 1963, body density, fat and potassium 40, 120  
 metabolic aspects of acute starvation body composition changes, 7412  
 Ku, Marshall, relief, 332, 570  
 Ku, Yuoh, factors affecting efficiency of chemically defined diet, 17351  
 Ku Klux Klan: organizational, investigation—  
 hearings, 10680  
 print additional copies, reports, 10595-596  
 report, 16250  
 Kubal, Gene J., cooperation in agriculture, 1954-64, list of selected references, 1517  
 Kuchn, Donald M., attached and separated boundary layers on highly cooled, ablating and nonablating models at M.13.8, 12954  
 Kugel, Robert B., children of deprivation, changing course of familial retardation, 8966  
 Kuhn, R., atlas, water masses and density stratification, western north Atlantic Ocean, 11629  
 Kuhns, Helen P., nuclear energy for water desalting, bibliography, 12014  
 Kulu Island, stratigraphy, 12600  
 Kuklis, Andrew, mineral industry of Missouri, 6659  
 Kulke, Bernhard, millimeter-wave generation with electron-beam devices, etc., 6854  
 Kumai, Motoi, hexagonal and cubic ice at low temperatures, 17375  
 Kunde, Virgil G., outgoing infrared radiance from planetary atmosphere, 14457  
 Kundert, James J., captioned films for the deaf program, 10929  
 Kung-Lee Wang, *see* Wang, Kung-Lee.  
 Kunlun Mountains, journey by Mikhail Vasil'yevich Pevtsov, 15426  
 Kunz, H. R., vapor-chamber fin studies, transport properties and boiling characteristics of wicks, 14379  
 Kuo-Hua Yang, *see* Yang, Kuo-Hua.  
 Kupper, Hubert J., relief, 778  
 Kupreanof Islands, stratigraphy, 12600  
 Kurkowski, Richard L., piloted simulation study of manual guidance of upper stages of large launch vehicle, 9887  
 Kurtenacker, R. S., Appalachian hardwoods for pallets, laboratory evaluation, 16661  
 Kurylo, Walter, remarks, Dec. 5, 1966, 1962  
 Kurzhals, Peter R., approximate solution of equations of motion for arbitrary rotating spacecraft, 18054  
 Kusler, David J., mineral industry of Virginia, 6669  
 Kussoy, Marvin I., hypersonic viscous drag on cones in rarefied flow, 12949  
 Kutscher, Ronald E., 1970 input-output coefficients, 17891  
 Kuwait: alien amateur radio operators, authorization to operate agreement, 2901  
 geology, 6406  
 mineral industry—  
 Kuwait-Saudi Arabia Neutral Zone minerals yearbook chapter, 5112  
 minerals yearbook chapters, 2556, 8356  
 Kwajalein Missile Test Site, contractor operated messing and merchandising services, new procedures adopted to improve management, Defense Dept., GAO report, 14155  
 KWIC, *see* Indexes.  
 Kwok-Long Chan, *see* Chan, Kwok-Long.  
 Kyaer, James E., tracer-spark technique for flow-velocity measurements, 12856

L

L series, 16053

Labels:

adhesive, use for price-marking cases at grocery warehouse, 10155  
 catalog of copyright entries, 12434, 17684  
 fair packaging and labeling act, law, 12157  
 foods, private labels, frequency of use by distributors, errata, 9947  
 hazardous substances labeling act, amend—  
 hearings, 2112  
 law, 466  
 text as amended, 12563  
 luncheon meats, what label means, 966  
 national potato labeling act, hearing, 17649

Labidocera, *see* Copepods.

Labin, Suzanne:

techniques of Soviet propaganda, study, 12322  
 print as Senate document, report, 12372

Labor:

American, impact of imports and exports—  
 hearings, 6034, 16242  
 report, 16256  
 Bulgaria, new pay scales for scientific and technical workers, 1303  
 civil defense role, State, county, and local, labor leaders briefing guide, 16055  
 code of Federal regulations, 7982, 9468-69  
 conditions—  
 Algeria, 1364  
 Angola, 1365  
 Basutoland, 6617  
 Bechuanaland, 1366  
 Burundi, 6618  
 Cameroon, Federal Republic of, 1367  
 Central African Republic, 1368  
 Chad, Republic of, 1369  
 Congo (Brazzaville), Republic of, 1370  
 Congo (Kinshasa), Democratic Republic of the, 1371  
 Dahomey, Republic of, 1372  
 Ethiopia, Empire of, 1373  
 Equatorial Guinea, 5073  
 French Somaliland, 5074  
 Gabon, 2509  
 Gambia, 1374  
 Ghana, Republic of, 2510  
 Guinea, Republic of, 5075  
 Ivory Coast, Republic of, 1375  
 Kenya, 1376  
 Liberia, Republic of, 1377  
 Libya, Kingdom of, 1378  
 Malagasy Republic, 2511  
 Malawi, 1379  
 Mali, Republic of, 1380  
 Mauritania, Islamic Republic of, 1381  
 Mauritius, 1382  
 Morocco, Kingdom of, 1382  
 Mozambique, 1384  
 Niger, Republic of, 1385  
 Nigeria, Federal Republic of, 1386  
 Portuguese Guinea, 5076  
 Réunion, 5077  
 Rwanda, 8320  
 Senegal, Republic of, 2512  
 Seychelles, 5078  
 Sierra Leone, 2513  
 Somali Republic, 1387  
 South Africa, 2514  
 South West Africa, 2515  
 Southern Rhodesia, 1388  
 Spanish Sahara, 5079  
 Sudan, Republic of, 2516  
 Swaziland, 1389  
 Tanzania, United Republic of, 2517  
 Togo, 2518  
 Tunisia, 2519  
 Uganda, 1390  
 United Arab Republic (Egypt), 1391  
 Upper Volta, 2520  
 Zambia, Republic of, 1392

## Labor—Continued

contemporary international Communist workers, and national-liberation movement, USSR studies, 5003-4  
 core city worker and plant relocation, 16711  
 developments abroad (periodical), 3465  
 displaced pottery and carpet mill workers, case studies of layoffs in small communities, 1360  
 engineers, scientists, and technicians, current market, 4727  
 how to train workers on the job, 5718  
 industrial characteristics of workers, affiliations by age, race, class of work, etc., census of population, 1960, 13403  
 industrial workers, training, USSR studies, 16752  
 interindustry mobility in United States, 13119  
 international labor (periodical), 3436  
 issues in mid-60's, 8321  
 labor courses, Civil Defense Office references, 14845  
 labor digests, 1364-92, 2509-20, 5073-79, 6617-18  
 African countries, 8316  
 labor force—  
   employment, and unemployment, 15452  
   monthly report, 3232  
 labor statistics 1967, handbook, 14302  
 labor's role in war on poverty, seminar, 11299  
 Main Pharmacy Administration of Moldavian SSR, proposals for improving labor organization, 15422  
 man-hour output, indexes—  
   private economy, 8319, 11333  
   selected industries, 6612  
   steel industry, 5055  
 manpower policy, labor's view, seminar proceedings, 14279  
 medical care utilization by disabled workers, 17202  
 migration of talent and skills, some facts and figures, 14681  
 migratory, study, authorization, report, 6080  
 mobility, selected references, 15432  
 monthly labor review, 3576  
   reprints, 2521, 5081, 14305, 16827  
 New England labor and economy, 1966, year-end report, 16828  
 older workers, job redesign, 10 case studies, 8303  
 Operation Late Start, how on-the-job training gives new hope to older workers, 16791  
 participation in civil defense, 197  
 periodicals, coverage of labor world, 11st, 1363  
 physiological basis of methods of increasing labor productivity, USSR study, 16766  
 potential supply and replacement of rural males of labor force age, 1721  
 promoting worker interest in safety, instructor outline, 8288  
 psychophysiological analysis of labor activity, USSR study, 11260  
 racketeering activities of Jack McCarthy, etc.—  
   hearings, 2119  
   report, 10731  
 relationship of education to labor (address), 6589  
 requirements in thinning Douglas-fir and western hemlock, 4837  
 role in State, county, and local civil defense, training course, instructor's guide, 198  
 scientific organization—  
   contributions of scientists, USSR study, 16767  
   use in higher education, USSR study, 16776

## Labor—Continued

statistics, interstate conference, proceedings, 15454  
 Turkish labor movement, 1918-63, 5016  
 USSR—  
   labor force, 1950-75, estimates and projections, 12090  
   studies, 6530  
   translations, 3971  
 work stoppages, monthly, 4070  
 worker attitudes in job seeking, 1021  
 workers—  
   accidental ozone poisoning, prevention, 2820  
   Martin Company, Denver, Colo., reemployment experiences, effects of defense employment readjustments, 5720  
   physically impaired, work performance, 14612  
   promoting interest in safety programs, 9704, 16804  
   Republic Aviation Corporation, Farmingdale, Long Island, post layoff labor market experiences, 5719  
   see also Child labor—Farm labor—Forced labor—Manpower—also headings beginning Labor.  
 Labor and Public Welfare Committee, Senate:  
   additional professional staff members and clerical assistants, authorization, report, 6081  
   calendar, 3499  
   committee prints, 4650, 4653, 6120-22, 10861, 10865-867, 12422, 13879, 17668  
   hearings, 959, 2133, 4651-52, 6123, 7823, 9325-28, 10859-860, 10862-864, 10868-869, 12419-421, 12423, 13877-878, 15170-172, 16426-428, 17663-667, 17669-670  
   investigations and studies—  
     education, etc., of Indian children, authorization, report, 15137  
     migratory labor, authorization, report, 6080  
   poverty—  
     authorization and expenses, report, 6079  
     expenses, report, 15136  
     hearings, 10860  
   reports, 874, 898, 914, 7784, 9279, 10736, 10792, 12364-366, 13805, 13809, 15080, 15125, 16364, 16366  
 Labor Department:  
   annual report, 8281  
   appropriations, 1967, law, 491  
   appropriations, 1968—  
     hearings, 9144, 10631, 13841  
     reports, 10612, 15082, 16287  
   Assistant Secretary, nomination of Thomas R. Donahue, hearing, 7823  
   guidelines and conditions for grant and contract research, 6591  
   financial management practices, GAO review, 8147  
 Library—  
   general periodicals currently received, 5034  
   list of recent additions, 3866  
   press releases, 3740  
   program reports, 16791-792  
   publications—  
     list, 3624  
     1961-June 1966, subject listings, 6595  
   safety programs—  
     chemical safety data sheet, CDS 1S series, 9682-83  
     off the job safety, OJS LS series, 16810  
   safety training programs—  
     how to inspect chart, HTIC LS series, 9684-95, 11308  
     effective use suggestions, 11307  
     occupational safety aid, OSA LS series, 9697-9720, 12766  
     occupational safety charts, 9721-27

Labor Department—Continued  
 safety training programs—continued  
     student reference, SR IS series, 6602,  
     9731-32  
     technical reference, TR IS series, 9733-  
     41  
 Under Secretary, nomination of James J.  
 Reynolds, hearing, 7823  
 unemployment taxes, benefits from quar-  
 terly collection, GAO review, 8135  
 wage rate determinations for construction  
 of Carters Dam, Ga., GAO review, 4878  
 Labor disputes:  
     airlines and employees, settlement, report,  
     874  
     emergency board report—  
         Long Island Railroad Company, 13966  
         National Railway Labor Conference,  
         9415  
         Pan American World Airways, Inc., 4724  
     railroad carriers and their employees—  
     amend railway labor act—  
         law, 9040  
         reports, 9112, 9279  
     extend period under railway labor act—  
         law, 10482  
         message from the President, 10511  
         reports, 10567, 10736  
     negotiations to ward off strike, etc.,  
         message from the President, 9074  
     provide for settlement—  
         hearings, 10660, 10868  
         law, 13534  
         reports, 12259, 12267, 12364, 13667  
     status of negotiations, hearing, 9328  
     summary of situation, etc., message  
     from the President, 10514  
     see also Strikes and lockouts.  
 Labor force, see Labor.  
 Labor hygiene, see Hygiene.  
 Labor hygiene and occupational diseases  
 (USSR periodical):  
     translations, 1244-45, 4992, 5005, 6491  
 Labor laws:  
     and practice in—  
         Brazil, 11309  
         Ethiopia, 5054  
         India, 8300  
         Israel, 16812  
         Lebanon, 2495  
     and their administration, convention pro-  
     ceedings of International Association of  
     Governmental Labor Officials, 11301  
     Federal, current, with 1789-1966 legisla-  
     tive action, 10647  
     Federal legislation to end strikes, docu-  
     mentary history, 10861  
     labor law series, 5047-50, 9696  
     legislation enacted in 1966, 5052  
     National Labor Relations Board, case de-  
     velopments, quarterly report, 3799  
     private-household workers, Illinois, fact  
     sheet, 10137  
     State—  
         affecting women—  
             Delaware, 8794  
             Ohio, 11912  
             summary, 11907  
         against discrimination in employment,  
         summary—  
             because of age, 5050  
             fair employment practice act, 5049  
         child labor laws, summary, 5047  
         of special interest to women, legislation,  
         1966, highlights, 11911  
     State and Federal, legislation, 1965, 1966,  
     annual digest, 14281  
     see also Child labor—Employers' liability  
     and workmen's compensation.  
     Labor legislation, see Labor laws.  
     Labor management relations, see Industrial  
     relations.  
     Labor-management reporting and disclosure  
     act of 1959:  
         electing union officers as prescribed in  
         title 4, etc., requirements, 8286

Labor-management reporting and disclosure  
 act of 1959—Continued  
     reporting and bonding provisions, admin-  
     istration and enforcement, Labor-Man-  
     agement Services Administration, Labor  
     Dept., GAO review, 8141  
     summary of operations, 6598  
     technical assistance aid (series), 8286  
 Labor-Management Services Administration,  
 welfare and pension plans disclosure act  
 and labor-management reporting and dis-  
 closure act of 1959, reporting and bond-  
 ing provisions, administration and en-  
 forcement, GAO review, 8141  
 Labor market, see Labor.  
 Labor organizations, see Labor unions.  
 Labor relations, see Industrial relations.  
 Labor standards:  
     fair labor standards act—  
         agriculture sharecropping arrangements  
         or landlord-tenant agreements, em-  
         ployer-employee relationship, guide,  
         13176  
     amend, hearings, 16323  
     amend to require Secretary of Labor to  
     investigate effect of foreign competi-  
     tion on domestic employment,  
     etc.—  
         hearings, 6034  
         reports, 16242, 16256  
     amendments of 1966—  
         agriculture, minimum wage provi-  
         sions, application, hearing, 7732  
         basic provisions, extent of coverage,  
         economic effects, 17289  
         legislative history, printing, report,  
         10591  
     application to—  
         construction industry, 2969  
         contract mail carriers, 7226-27  
         equal pay for equal work, 11897  
         hospitals and nursing homes, 1663  
         hotels, motels, restaurants, and food  
         service employees, 7225  
         laundries and dry cleaning establish-  
         ments, 1604  
         minors employed in agriculture, 10132  
         overtime pay, computing, highlights,  
         11895  
         retail and service enterprises and  
         establishments, 8788  
         schools, 10131  
         soft drink industry, 17290  
         wholesale grocery business, 11896  
     child labor provision, guide, 8785  
     defining terms, executive, administra-  
     tive, professional, etc., 1665  
     employment of homeworkers in indus-  
     try, 15819  
     equal pay provisions, 7224  
     message to young workers, 8787  
     questions and answers, 17291  
     handicapped clients in sheltered work-  
     shops, wage payments, technical re-  
     port, 18252  
     handy reference guide, Spanish edition,  
     5590  
     how to keep time and pay records, pro-  
     visions, 8786  
     joint employment relationship, 13178  
     quick look at hours worked under act,  
     11895  
     records to be kept by employers, 11899,  
     13179  
     reports to Congress as required by sec.  
     4(d), 2971, 7228  
     retail trade, minimum wage and maxi-  
     mum hours, study to measure effects of  
     1961 amendments, 5591  
     text, with amendments, 2970  
     fair labor standards foreign trade act,  
     reports, 16242, 16256  
     Hospital and Medical Facilities Division  
     projects, questions and answers, 8634  
     provisions for Public Health Service Con-  
     struction grant programs, 8637  
     safety standards (periodical), 3845

- Labor Standards Bureau :**  
bulletins, 1357-58, 5046, 6599, 8287-99, 9681, 9742-46, 11301, 14280-281, 16797, 17887  
safety standards (periodical), 3845
- Labor Statistics Bureau :**  
BLS report series, 2492-95, 5054-55, 8300, 11309, 12768, 14282, 15437, 16812-813, 17890-891  
bulletin, 2496-2508, 1359-62, 5056-71, 6604-13, 8301-17, 11310-330, 12769-774, 14283-303, 15438-450, 16814-822, 17892-897  
information system, search statement manual, 15436  
NE regional reports, 16828  
periodicals, coverage of labor world, 11st, 1363  
publications, catalog, 8318, 17898  
surveys and studies, methods used, hand book, 2497
- Labor Statistics, Interstate Conference on, see Interstate Conference on Labor Statistics.**
- Labor surplus, see Unemployed.**
- Labor turnover :**  
factory, monthly release, 3259  
measurement, 16826
- Labor unions :**  
conventions, 1967, 11st, 14306  
directories, national and international in U.S., changes, 2498  
fallout shelters, civilian defense, how does it affect you? 4383  
labor-management reporting and disclosure act, electing union officers, requirements, 8286  
local-transit operating employees, wages and hours, 14300  
local union election appeals, analysis, 6592  
motortruck drivers and helpers, wages and hours, 15444  
scientific labor organization proves effective at Siberian mining institute, 14263  
unions and changing status of women workers, conference, 5608  
welfare and pension plans disclosure act—amend with respect to filing of copies and making affidavits, hearings, 4531  
questions and answers, 14278  
*see also Fishermen's and fish shore workers' unions—also names of unions.*
- Laboratories :**  
clinical, improve performances—hearings, 12305, 17670  
reports, 16230, 16247  
Federal, utilization of resources, case study, 4537  
Food and Drug Administration, sites, selection procedures, hearing, 15032  
independent, conditions for medicare coverage of services, 5502  
instruments, industrial plant equipment handbook, 4673  
laboratory studies of open-channel flow (series), 4892  
mama rearing fall armyworm, 8805  
measurement of meteor luminous efficiency, 11411  
packaged disaster hospital laboratory, 2823  
procedures in blood banking and immunohematology, 5745  
tests to confirm acceleration of slash decomposition by chemical treatment, 8086  
Ukrainian, scientific laboratories, research gains noted, 14235  
*see also Research laboratories—Testing laboratories—also names of laboratories, or places where located.*
- Laboratory animals, see Animals.**
- Laboratory apparatus and supplies :**  
Federal item identification guides for supply cataloging, supplements, 3289  
inhalation anaesthesia of small laboratory animals, USSR study, 1288
- Laboratory apparatus and supplies—Con.**  
research equipment, better management, procurement, and utilization in Federal laboratories, hearing, 15028  
Laboratory aspects of syphilis, 18170  
Laboratory arc furnace features, interchangeable hearths, 8392  
Laboratory profile of 283 healthy male adults, 7347  
Labovitz, I. M., Federal programs for development of human resources, etc., 7590  
Labrador, sailing directions, 13020  
Labrador Sea, oceanography in vicinity of Hudson Strait, 10445  
Labyrinth-type valve seat increases valve life by decreasing fluid velocity, 1444  
Laccadive Islands, sailing directions, 17073  
Lacey, Robert E., desalination by electro-sorption and desorption, 6445  
Lacquer and lacquerling, current industrial reports, 3169, 10357
- Lactates :**  
anesthetized dog, hydrazine effect, 7359  
excess, relation to oxygen deficit during hypoxia, 7355
- Lactic acid, concentration in dogs under acute hypoxia, 1739**
- Lactic dehydrogenase, see Dehydrogenase.**
- Ladd, Harry S., chitons and gastropods (Haliotidae through Acanthidae) from western Pacific Islands, 4890**
- Ladders :**  
adjustable, self-locking ladder includes optional work platform, 9834  
safe practices, 9725
- Lady, J. D., electricity, conductors and insulators, classification definitions, 18128**
- Laemmerz, Arthur J., sailing in Greece, 4440**
- Lafayette County, Wis., soil survey report, 1610**
- Lafferty, J. M., hot-cathode magnetron ion gauge, 5185**
- LaFrance, Hazel M., claims against U.S., 13580**
- Lagrange multipliers, explicit solution, on singular subarc of optimal trajectory, 16982**
- Lagrange problems with variable endpoint as optimal control problems, 14386**
- Laguna mining district, geology and uranium deposits, 8165**
- Lahore, Pakistan, Lahore Atomic Energy Center, program development (remarks), 4244**
- LaHue, Delmon W. :**  
evaluation of 4 inert dusts on wheat as protectants against insects in small bins, 8835  
evaluation of malathion, synergized pyrethrum, and diatomaceous earth—as protectants against insects in sorghum grain in small bins, 11933  
on shelled corn as protectants against insects in small bins, 36
- Laird, Eugene E., relief, 833**
- Laird, William M., upper and lower bounds for eigenvalues of vibrating beams with linearly varying axial load, 2609**
- Lake, see name of lake, except when occurring as first word of name of town, etc.**
- Lake City, Minn., motor carrier accident, 4927**
- Lake currents, modification of nearshore currents by coastal structures, 8326**
- Lake Mead National Recreation Area, general information, 8558**
- Lake Oswego High School, teens sound off, faculty listens to students' serious evaluation, 17726**
- Lake States, see Great Lakes States.**
- Lake States Forest Experiment Station, publications, 1961-65 annotated list, 2258**



# INDEX 1967

- Lake Survey (Army):  
bulletin, 2523  
miscellaneous paper, 8326  
research reports, 12776, 16833
- Lakes:  
America's small lakes, water pollution control and abatement, report, 14986  
anisotropic ice, ultrasonic pulse measurements, 1754  
Columbia River Basin, change of storage, 3907  
mountain, aerial photo techniques for recreation inventory, 14128  
pollution prevention and control, pilot programs, hearings, 16435  
*see also* Great Lakes—*also* names of lakes.
- Lam, Yim Mel, relief, 16182, 17532
- Lamas, Juan F. A., relief, 342
- Lamb, Fred M., aspen wood characteristics, properties, and uses, review of recent literature, 14134
- Lamb:  
in family meals, guide for consumers, 17319  
slaughtering, cutting, and processing on farm, 1690
- Lambert, Edmund B., mushroom growing in United States, 1687
- Lambert, Robert W., documents on disarmament, 1748, 15925
- Lambs:  
crop, 7197, 14697  
1960-64, revised estimates by States, 7297  
on feed, 5556-57, 5681, 8759
- Laminar flow, *see* Flow.
- Laminated materials:  
elastomeric bearings in UH-1 helicopter tail rotor, evaluation, 17389  
fiberglass laminates, liquid crystals detect voids, 16941  
flexural behavior of large glued-laminated beams, 8104  
honeycomb sandwich structures, detection of entrapped moisture, 11453  
potting compounds for honeycomb sandwich fasteners, depth control, study, 6834  
ultrasonic quality inspection of bonded honeycomb assemblies is automated, 2664  
wear and friction of polymer laminates in liquid nitrogen, etc., 2693  
*see also* Plastics.
- Lamnidae, *see* Sharks.
- Lamps, Federal item identification guides for supply cataloging, supplements, 3289  
*see also* Electric lamps.
- Lanal:  
small-boat harbor at Manele Bay, Hawaii, additional funds—  
hearings, 12427  
report, 10732
- Land:  
Alaska interior, land types, photo identification guide, 15287  
atlas of off-road ground roughness power spectral densities, etc., 4195  
capability classification, 1678  
challenge of land use (address), 15846  
conservation and utilization, amend Bankhead-Jones farm tenant act—  
law, 500  
report, 910  
cropland adjustment program—  
eligibility of farm acquired to replace farm transferred to agency having right of domain, report, 15087  
Greenspan way, general information, 5672  
cropland, 1964-65 conversion program, description and appraisal, 9388  
development handbook for title 10, mortgage insurance, 16575  
differential assessment of farmland near cities, experience in Maryland, 17712
- Land—Continued  
facilitate exchanges with Forest Service for use of public schools—  
hearings, 16303  
report, 16275  
Federal participation in cost of airport projects involving donated land, GAO review, 15300  
forming, means of controlling surface water on level fields, 5642  
interstate sales full disclosure act, hearings, 17642  
La Jolla, Calif., donated by University of California, use for marine biological research laboratory, hearing, 746  
land use intensity, 8204  
miscellaneous transfers, hearings, 16303  
open space land planning and taxation, bibliography, 12627  
open-space land program, questions and answers, 4902  
ownership maps, 19th century, in Library of Congress, checklist, 16837  
planned use policy (address), 10158  
planning bulletin, 8204  
recreation, price escalation report, 8603  
Sandoval County, N. Mex., effects of treatment on runoff water supply, 6412  
soil conservation, devoted to wise use of resources (periodical), 3883  
State and privately-owned, protection within national forest protection areas, 4861  
use—  
crisis in suburbia, picture story, 11939  
trip generation analysis, guidelines, 15718  
zoning, aid to community resource development, 17326  
*see also* Public lands—Soil conservation.
- Land banks, *see* Federal land banks.
- Land landing couch dynamics computer program, 15530
- Land Management Bureau:  
appropriations, 1968, hearings, 7734  
information bulletins, 8327-28, 15456-457  
need to resolve differences in procedures used by Federal timber management agencies in appraising timber offered for sale, GAO report, 4871  
press releases, 3741  
program briefings, hearings, 10655  
seasonal employment information, 2524
- Land operational facilities, 14565
- Land tenure, Rainy Lake Chippewa, beginning of 19th century, 6974
- Lander, Wyo., sale of land by Agriculture Dept., reports, 925, 7781
- Landers, William S., coking properties of selected Utah coals and blends, 11377
- Landing (aircraft):  
altitude rate command system, 9997  
approach paths with rainbow optical landing system, 5346  
approaches—  
cross-pointer-type instrument display in landing with helicopter, 1488  
moving-map instrument display in landing with helicopter, 11531  
depth of flash optical system, 13032  
equipment, Federal item identification guides for supply cataloging, supplements, 3293  
heliport standard marking pattern, development study, 17734  
landing task in jet trainer with restricted fields of view, flight investigation, 11553  
shadow box optical landing system, 11680  
simulated, flight characteristics of supersonic transports during approach, 12926  
snow runways, role of sintering in snow construction, 15930  
use of displacement, flash, and depth-of-flash coded displays for providing control system information, 5354



Landing (aircraft)—Continued  
winged missile model, water-landing characteristics, 9872  
X-15, landing contact conditions, statistical analysis, 5271  
XB-70, landing-contact conditions, statistical analysis, 11548  
Landing (spacecraft), *see* Spacecraft.  
Landing gear, tricycle, landing loads, analysis, 14472  
Landis, B. J., wireworms on irrigated lands in the West, 10170  
Landlords and tenants:  
District of Columbia—  
code, amend, hearings, 2113  
tenants evicted from unsafe and insanitary buildings, make available for relocation payments, hearings, 2113  
rent supplement help for tenants, 12623  
tenants' rights, legal tools for better housing, report on conference, 14277  
Landmarks, *see* Historic sites.  
Landrock, Arthur H., military applications of plastics and related materials, 12446  
Landrum, Emma J., effect of skewed wing-tip controls on variable-sweep wing-fuselage configuration, 8487  
Lands, *see also* Public lands.  
Landscape:  
development, general information, 14194  
evolution and soil formation in southwestern Iowa, 14763  
landscaping and scenic enhancement of Federal-aid highways, 1968 authorizations—  
hearings, 15174  
reports, 15126, 16272  
Landslides:  
earthquakes of Mar. 27, 1964, Seward, Alaska, effects, 11175  
Mount Rainier landslide of Alpine origin, primary microbiological succession, 11119  
Lane, Elizabeth, agricultural economics research, 2996  
Lanford, Samuel T., shelter through architectural design, 8981  
Lang, A. Scheffer, remarks, Jan. 19, 1967, 4451  
Lang, Jean M., Zectran fed orally to mice, cholinesterase levels in blood determined, 16657  
Lang, William E., simulation of deployment dynamics of spinning spacecraft, 14471  
Langan, L. N., soil survey, Las Vegas and Eldorado Valleys area, Nev., 14662  
Langbein, W. B., aeration capacity of streams, 9570  
Langley lunar landing research facility, operational features, 6875  
Langley Research Center:  
commemorating 50 years of service to the Nation—  
law, 17546  
report, 17622  
Langmuir probes, *see* Electric probes.  
Language and languages:  
bilingual education programs, Federal aid to local agencies, hearings, 15170, 16321  
communicating by language, speech process, conference proceedings, 7061  
disorders, causes, etc., 18178  
instruction, financial assistance guidelines under NDEA, 13956  
language ability, grades 7-9, 2186  
language in Peace Corps, breaking sound barrier, 5378  
microlanguage programming on Ural-4 computer and sorting on magnetic tape, USSR study, 12758  
modern foreign, national defense education act—  
institutes for advanced study, summer 1967, handbook for directors, 1003  
loans to private nonprofit elementary and secondary schools for equipment and materials, 1007

Language and languages—Continued  
national defense education act—  
modern foreign language fellowships, program, 7905  
title 6, language and area studies summer 1967, 1009  
overseas activities in support of modern foreign language and area studies, 16506  
*see also* Electronic computers—also names of languages.  
Langway, C. C., jr., stratigraphic analysis of deep ice core from Greenland, 13290  
Langworthy, James B., neutron production by fusion in class of anisotropic plasmas, 5347  
Lannen, Margaret A., additional interest earnings of OASDI trust funds resulting from changed interest rate provided in 1960 amendments, 7116  
Lanner, Ronald M., phenology and growth habits of pines in Hawaii, 4854  
Lansche, Arnold M., selenium and tellurium, materials survey, 16854  
Lanthanum, metal, electrowinning and tapping, 2586  
Lanzano, P., periodic solutions for restricted 3-body problem of celestial mechanics, 9813  
Laos, mineral industry, minerals yearbook chapter, 11358-359  
LaPage, Wilbur F.:  
campground trampling & ground cover response, 14138  
successful private campgrounds, 8110  
La Porte, A. H., research on refurbishable thermostructural panels for manned lifting entry vehicles, 2605  
Lappet moths, pine lappet, identification, etc., 8842  
Lapping machines, vibratory, metallographic holding fixture permits polishing of soft metals on, 5155  
Laramie County, Wyo., geology and groundwater resources, 8179  
Larch:  
western—  
defect estimation in Blue Mountains of Oregon and Washington, 2289  
forecasting seed crops, procedure, 4828  
forests, productivity indicators, 9535  
growth opportunities (paper), 4829  
seedlings, insolation limits initial establishment, 14088  
Lard, commercial production, 11879  
Large, David B., resonances of thin-shell model of earth-ionosphere cavity, 2225  
Larkin, L. C., marketing industrial molaases in U.C., 4699  
Larsen, Lynn S., soil survey of Elbert County, Colo., eastern part, 1611  
Larson, George L., jr., motor carrier accident, 4927  
Larson, K. H., distribution, characteristics, and biotic availability of fallout, Operation Plumbbob, 1812  
Larson, Leonard P., mineral industry of Arizona, 6643  
Larson, M. M., racial variation in ponderosa pine at Fort Valley, Ariz., 2315  
Larson, Nellie G., books on cooperatives, general reading list, 12977  
Larve, *see* names of insects, etc.  
Laser modulators, 10.6, micron development, 12957  
Lasers:  
absolute frequency stabilization of laser oscillator against laser amplifier, 14444  
accuracy of laser measurements improved by pulse autocorrelator electronic system, 16968  
bibliography, 14407  
bleaching effect in ZnS(Co) crystals under influence of ruby laser pulses, 9926  
concept for using, to measure electron density in plasmas, 6807  
create by use of highly ionized plasma, USSR study, 4998

# INDEX 1967

## Lasers—Continued

- design concepts using ring lasers for frequency stabilization, 11472
- development of optical waveguides and components, 15508
- Doppler flowmeter, measures gas velocity, 6847
- FM modulation of CW laser beam, 6710
- gas, errors, canceled with neon isotopes, 5226
- helium-neon, discharge parameter study, 17086
- high-power research, NRL progress, 1553
- materials research, 5344
- measuring system accurately locates point coordinates on photograph, 5154
- optic quantum generators, use in biology and medicine, prospects, USSR study, 12738
- optical superheterodyne receiver uses laser for local oscillator, 6753
- precision CW laser automatic tracking system investigated, 6791
- system generates single-frequency light, 16943

see also Ruby laser.

## Lasher, Lewis P.

LSD, the false illusion, 17791

Lasker, Mary, award presentation to (remarks), 1354

LASO, see Latin American Solidarity Organization.

Lassie, help her keep America beautiful (poster), 16648

Lastra, Jesus L., relief, 822, 9248, 13492, 13597

Las Vegas Valley area, Nev., soil survey report, 14662

Latches, safety door, for automotive vehicles, Federal standard, 6319

Late somatic effects of radiation, 10308

Late Start Operation, see Operation Late Start.

Lateral ring metal elastic wheel absorbs shock loading, 6821

Lateral stability, see Stability of aircraft.

Latex, monodisperse polystyrene latexes, method measures mean particle diameter, 8394

Latham, Earle E., soil survey, Metcalfe County, Ky., 7135

Lathes, veneer, how to inspect chart, 11308

## Latin America:

- agricultural development, role of Inter-American Development Bank (remarks), 10121
- agricultural production for 20 countries, indices, 4700
- alliance for progress, support historic new phase—
  - hearings, 7747, 7807
  - reports, 7715, 9098
- Communist activities, 1967:
  - hearing, 12298
  - report, 12285
- economic and geographic translations, 3225
- food for progress—
  - agricultural development, report, 13701
  - report, print additional copies, report, 12241
- Government operations, review, 7770
- Latin American common market (remarks), 13468
- market profiles, 13455
- mineral industry, regional review, minerals yearbook chapter, 12813
- paperback books, bibliography, 12779
- press, abbreviations used, glossary, 12721
- social progress trust fund agreement with Inter-American Development Bank, protocol, 2913
- subcommittees attendance at meetings, authorization, report, 7718

## Latin America—Continued

- summit conference—
  - understanding on behalf of U.S., recommendations, message from the President, 7610
  - welcoming etc., report, 10728
- United States foreign aid in action, case study, 2122
- Latin American Solidarity Organization, conference, July 28–Aug. 5, 1967, Senate Judiciary Committee staff study, 13872
- Lattice theories, see Crystal lattices.
- Lattu, Onnie P.:
  - remarks—
    - Dec. 14, 1966, 5366
    - Oct. 3, 1967, 17101
- Latvia:
  - Academy of Sciences, activities reviewed, 8250
  - Academy of Sciences, biographies of members, 1163
  - power engineering trends, 1235
  - State prize candidates in science and production, USSR announcement, 12683
- Launch vehicles, see Spacecraft.
- Launching facilities:
  - aircraft equipment, Federal item identification guides for supply cataloging, supplements, 3293
  - dynamic launch decision criteria, system automatically provides, 17974
  - space port traced in Zvezdograd, development, 1251
- Laundry and laundries:
  - field laundry operations, Army technical manual, 8885
  - hospital laundry, design and equipment, 7071
  - industry wage survey, 14298
  - sanitation in home laundering, 17317
  - under Fair labor standards act, as amended, 1664
- Laurel, Oscar M., nomination, hearing, 10823
- Lauriat, Patience, paper, Aug. 15–19, 1966, 1880
- Lauzardo, Esther Y., relief, 9232, 12238, 13497
- Lava Beds National Monument, general information, 17052
- Lavapies, Nermia D., relief, 305
- Laventhol, Jesse, major legislative actions, 90th Congress, 1st session, 9047, 13548
- Laventure, Louis, or heirs, relief, 610
- Law:
  - advocates for the poor, Legal Services Program, 6161
  - China, mainland, selected legal sources, guide, 11338
  - enactment—
    - procedural steps, 13720
    - procedure, print revised edition, report, 12369
  - Equal Employment Opportunity Commission, annual digest of legal interpretations, 12480
  - general interest, summary, 89th Congress, 4572
  - how our laws are made, 10520
  - reprinting, reports, 10589, 10788
  - JAG law review, 3453
  - Judge Advocate legal service, Army pamphlets, 3461
  - law and the deaf, 17183
  - law in action, legal services program of War on Poverty, 3466
  - legal aspects of PHS medical care, 1582
  - legal proceedings, testimony by employees and production of records, federal aviation regulations, 11005
  - legal services—
    - community action program, how to apply, 15203
    - fact sheet, Economic Opportunity Office, 4691
    - in action, the poor seek justice, 12449

Law—Continued

Legal Services Program—  
annual report, Economic Opportunity  
Office, 4690  
guidelines, 16482  
local law, application in military claims  
in determining negligence, report, 12279  
Navy, Judge Advocate General Office, or-  
ganization and functions, 15633  
newsman's privilege, legal procedure, 2129  
procurement legal service, Army pam-  
phlets, 5737, 7389, 8883-84, 13300,  
14799-800  
publications, price list, 10037  
slip laws (private)—  
89th Congress, 250-359  
90th Congress, 10476-479, 12143-154,  
13474-321, 14884-905, 16122-127,  
17490-535  
slip laws (public)—  
89th Congress, 360-514, 1970-71, 3783,  
12155-163  
90th Congress, 9031-40, 10480-490,  
12164-183, 13522-541, 14906-915,  
16128-145, 17536-561  
Soviet law and social regulation, transla-  
tions, 3967  
State, compulsory school attendance,  
summaries, etc., 2191  
statutes, Government Operations Commit-  
tee, House, 4538  
subject index of regulations published in  
Sbirka zakonu CSSR, Czechoslovakia,  
15423  
tenants' rights, legal tools for better  
housing, report on conference, 14277  
see also Codes of law—Criminal law—  
Military law—Statutes at large—also  
subjects.

Law enforcement:  
agencies, activities relating to small busi-  
ness, report, 4513  
career opportunities, Treasury enforce-  
ment agent, 5575  
controlling crime through more effective  
law enforcement, hearings, 15166  
Federal assistance to State and local gov-  
ernments—  
act of 1965, activities under, report,  
11292  
amend act—  
law, 502  
reports, 635, 929  
highway safety study, Operation 66, joint  
engineering-enforcement, project report,  
1594  
housing codes in 6 Connecticut cities,  
14852  
law enforcement and criminal justice as-  
sistance act of 1967, reports, 13670,  
13685  
local agencies, Secretary of Labor to col-  
lect, etc., employment data, hearings,  
16325  
local officers killed while apprehending  
Federal offender, provide compensa-  
tion to survivors—  
hearings, 15166  
reports, 14976, 15110  
major metropolitan areas, crime and law  
enforcement studies, 13060  
victimization and attitudes toward, in  
D.C., 13058

Law Enforcement and Administration of  
Justice, President's Commission on, see  
President's Commission on Law Enforce-  
ment and Administration of Justice.

Laws:  
diseases, how to control them, 11931  
weed control with herbicides, 15854

Lawrence, J. D., jr., optical radar measure-  
ments of atmosphere, 8420

Lawrence, Mass., area wage survey, 15440

Lawrence Radiation Laboratory, Livermore,  
Calif., 15 years of achievement (remarks),  
15970

Lawroski, Stephen, reactor fuel processing,  
quarterly technical progress review, 3806

Laws, see Codes of law—Labor laws—Law—  
also subjects.

Lawson-Dumont-Fall River mining district,  
Colo., geology and ore deposits, 16683

Lawyers:  
advocates for the poor, Legal Services  
Program, 6161  
career opportunities with Civil Aeronau-  
tics Board, 16045  
corporate voluntary balance of payments,  
program and lawyer (remarks), 224  
Federal attorneys, appointment records,  
pamphlet to accompany microcopy  
Idaho, Territory and State, 18071  
labor relations role (remarks), 14525  
legal careers in Federal government, 13447  
pay, national survey, 2507  
recovery of reasonable fees, amend inter-  
state commerce act, hearings, 17645

Laycock, William A.:  
comandra, grazing, and comandra blister  
rust, 14127  
distribution of roots and rhizomes in dif-  
ferent soil types in Pine Barrens, New  
Jersey, 6408

Laymon, Richard S., image interpreter map  
displays, chip versus hard copy, 4224

Layout, equipment, and work methods for  
school lunch kitchens and serving lines,  
4121

Layout guidelines for peach packinghouses,  
7247

Layouts, see Plants (industrial).

Layton, Garrison P., jr., flight tests of wide-  
angle, indirect optical viewing system in  
high-performance jet aircraft, 1497

Lazaro, Eric J., relief, 258

Lazarow, Arnold:  
diabetes literature index, 3203  
1966 index issue, 14621

LD, see Lethal dose.

Lea, Robert N., stability of numerical solu-  
tions of ordinary differential equations,  
5243

Lead, S. Dak., gold distribution in diamond-  
drill core from Homestake Mine, 6679

Lead:  
compounds, plate materials of lead-acid  
cell, anodic oxidation, 11672  
geology of upper Mississippi Valley zinc-  
lead district (series), 6388  
industry, mineral industry survey, month-  
ly, 3467  
in indium, determination, 9985  
lead-silica glass, viscosity of standard  
type, 1520  
lead-zinc industry—  
Pacific Northwest, analysis, 11352  
stabilization—  
bearing, 12413  
report, 10752  
lead-zinc sinter, complex, electric smelt-  
ing, 14353  
mine production, mineral industry survey,  
monthly, 3468  
minerals yearbook chapters, 2545, 5107  
ores, domestic reserves and potential  
sources, evaluation, 8340  
tin-lead solders and solder joints, tests,  
11388  
zinc-lead district of upper Mississippi Val-  
ley, aeromagnetic and tectonic analysis,  
4888  
see also names of articles manufactured  
from lead.

Lead poisoning:  
in children, 16042  
mullards, test of grit types in alleviating,  
17786

# INDEX 1967

- Lead sulfates, anodic oxidation of  $PbSO_4$  etc., plate materials of lead-acid cell, 11672
- Leadbetter, Sumner A., design and fabrication considerations for 1/10-scale replica model of Apollo/Saturn V, 16988
- Leadership:
  - Army Junior ROTC, training today for leadership tomorrow, 4193
  - Army officers' call, theirs to reason why, 15940
  - 4-H club entomology leaders' guide, 4134
  - squad leaders, Army pamphlet, 11988
  - take me to your leader (address), 10318
  - USDA, for more beautiful countryside, 49
- Leading edge, *see* Aircraft—Airfoils—Wings (aircraft).
- Leaf, Charles F., sediment yields from high mountain watersheds, central Colorado, 2332
- Leafhoppers, Western Hemisphere Balclutha (Homoptera: Cicadellidae), classification, 8547
  - see also* Beet leafhopper.
- Leaflets, *see* names of departments, etc., issuing leaflets—*also* subjects.
- Leak, William M., report of NRL progress, 3821
- Leak detectors:
  - gas leak detector is simple and inexpensive 6827
  - portable set discloses helium leak rates, 9833
- Leaks:
  - correlations for predicting leakage through closed valves, 17038
  - cryogenic seal remains leaktight during thermal displacement, 12837
  - face contact seal in liquid sodium performance improved in incorporation of spiral-groove geometry, 11505
  - friction and leakage losses in blade-rings of turbines and turbine units, 5277
  - helium leak testing of pipe welds, fixture to facilitate, 12904
- Learn and train for job under MDTA, 13971
- Learning:
  - grouping as related to pupil learning, survey of research, 4721
  - In action, selected issues in training and demonstration projects, 2973
  - paired-associate experiments, confidence in recall, 13262
  - programmed, Air Force manual, 8850
  - psychology and the theory of learning, USSR study, 14268
  - use of cuing in training tasks, phase 3, 15635
- Leary, Richard J., blast furnace operation with natural gas injection and oxygen-enriched blast, 12828
- Leases:
  - air space in District of Columbia, authorize, hearings, 16407, 17598
  - geothermal steam deposits, issuance of leases, hearings, 4546, 12411, 15037
  - Gila River Indian Reservation, 99-year term, report, 12243
  - Hualapai Indian Reservation, 99-year term, report, 12244
  - Indian long-term leasing act, amend extending terms, etc., report, 15078
  - leasing program for low income families, administered by local housing authorities, 2382, 11199
  - long-term, on San Xavier and Salt River Pima-Maricopa Indian Reservations, law, 429
  - oil and gas lease—
    - New Mexico, reinstate, 530, 12324
    - reinstatement, etc., by Secretary of Interior, hearings, 13708
    - Wyoming, reinstate, reports, 10738, 10740
- Leases—Continued
  - oil lease, New Mexico, reinstate, 10704
  - Post Office Dept. for real property, extend authority—
    - hearings, 7827, 9165
    - law, 10484
    - reports, 10562, 10726
  - San Carlos Apache Reservation, 99-year term, report, 12261
  - Yosemite National Park, El Portal site, extend term, report, 15002
- Least squares:
  - method, analysis of gamma-ray spectra, computer program, 8630
  - nonlinear regression and principle of least squares, evaluating constants and calculating variances and covariances, 6681
- Leather goods, *see* Leather, hides, and skins.
- Leather, hides and skins:
  - hide trim pattern for domestic cattlehides, standard of trade, 5283, 8517
  - leather goods, general repair, technical manual, 13302
  - leather manufactures and allied products summary of information, 12029
  - leather products, new developments (talk), 4703
  - leathers, Federal item identification guides for supply cataloging, supplements, 3292
  - new developments in hide and leather industry (speech), 12459
  - personal leather goods, current industrial reports, 3169
  - unhairing hides at packinghouse, economic aspects, 11934
- Leave of absence:
  - administrative leave to employees representing Government employee organizations, decision of Comptroller General regarding, 17610
  - annual and sick leave act of 1951, amend to exempt from coverage of act officers and members of crews of vessels, hearing, 4553
  - District of Columbia teachers leave act of 1949., amend relative to sick leave provisions, report, 14991
  - Federal employees' administrative leave for hurricanes, etc., hearing, 748
  - Federal seafaring employees, additional leave, law, 459
  - Government employees not to be charged for absence as result of hostile action abroad, report, 10768
  - Government officials and employees, FPM supplement, 3305
  - uniformed service members voluntarily extending tour of duty in hostile fire area, authorize special 30-day period of leave—
    - hearing, 716
    - law, 448
- Leaves, foliage plants, production and sales, etc., 10108
- Lebanon:
  - capsule facts for Armed Forces, 13282
  - Irsael armistice line, boundary study, 11829
  - labor law and practice, 2495
  - mineral industry, minerals yearbook chapter, 5113
- LeBeau, Oscar R., ways farmers do business, 2229
- LeBel, Peter J., sensors to obtain in-flight ablation measurements of thermal-protection materials, 1494
- Lebowitz, A. I., mechanization of USAEC library, 1st legislative information, 5790
- Lecithinase, *see* Phospholipases.
- Lectures, *see* Addresses, lectures, etc.
- Lederer, Paul S.:
  - life cycling test on several strain gage pressure transducers, 18083
  - methods for performance-testing of electro-mechanical pressure transducers, 6923

- Lee, B. J.:  
pitch control motor for launch escape system of Apollo spacecraft program, 15560  
solid propellant rocket motor performance computer programs using group transformation method, 1483
- Lee Duk Hee, relief, 13766, 16217, 17518
- Lee, Edwin E., jr., interaction effects of control jet exhausting radially from nose of ogive-cylinder body, 5237
- Lee, George R., sport fishery abstracts, 3891
- Lee, Henry A., low-speed dynamic-model investigation of Apollo command module configurations in Langley spin tunnel, 14452
- Lee, Robert E., nomination, hearing, 13855
- Lee, Robert S., ten-bit analog-to-digital converter, 11486
- Leef, Albert E., dual-channel, VHF-UHF transmitter for Gemini experiment D-14, 10004
- Lees, L., mixing parameter analytical method used for laminar separations, investigation, 9806
- Leeward Islands:  
Antigua—  
Peace Corps volunteers, agreement, 13146  
tracking station, agreement with Great Britain, 8749  
St. Christopher, Nevis, and Anguilla, Peace Corps program, agreement, 11851
- Legal aspects of PHS medical care, 1582
- Legal procedures, *see* Law.
- Legal research, Project LITE (legal information through electronics), hearing, 15034
- Legal services, *see* Law.
- Legibility of alphanumeric characters and other symbols, 6917
- Legislation:  
89th Congress, 2d sess., of interest to National Institutes of Health, summary, 7094  
major legislative actions, 90th Congress, 9047, 10494, 13548  
Public Works Committee—  
House, activities, 89th Congress, 6041  
Senate, activities and accomplishments, 89th Congress, 4658  
record, 89th Congress, 2d session, 767
- State—  
legislation of special interest to women, 1966 highlights, 10141  
program of Advisory Commission on Intergovernmental Relations, 15822  
*see also* Labor laws—Law—*also* subjects.
- Legislative appropriations, *see* Appropriations.
- Legislative reorganization act, *see* Congress of United States.
- LeGrand, H. E., ground water of Piedmont and Blue Ridge provinces in southeastern States, 9566
- Legumes, inoculation, what it is, what it does, 14739
- Lehrman, Hal, rebellion in Russia's Europe, fact and fiction, print additional copies, report, 12373
- Lei, Kenneth P. V.:  
electrolytic process for producing ductile vanadium, 12825  
molten-salt electrorefining vanadium scrap, 17916
- Leiman, Martin, food retailing by discount houses, 5652
- Leinenbach, Paul, selling in Denmark, 233
- Leiss, Amelia C., arms control and limited war in developing areas, 15924
- Leisure:  
changing cultural patterns, 5042  
time, leisure, and computer, crisis of modern technology (remarks), 5799
- Lemke, Richard W., effects of earthquake of Mar. 27, 1964 at Seward, Alaska, 11175
- Lempel, Michael J., determining heat-transfer characteristics for dilute gas-solids mixture in externally heated tube, 14326
- Lending operations, *see* Loans.
- Lenfesty, Charles D.  
soil survey of Adams County, Wash., 18212
- Lenin prizes:  
nominees listed, USSR article, 8252  
science and technology, recipients, 9657
- Leningrad, Russian SFSR, Central Bureau of Technical Information services for technical progress, value, 6513
- Leninism, *see* Communism.
- Lens (eye):  
panels illuminated by edge-lighted lens technique, 5204
- Lenses, welders' helmets, military standard, 9372
- Lente, Joe E., artist of Isleta paintings in pueblo society, 14547
- Leonard, J. T., hysteresis loop method to study thixotropic suspensions, 10005, 11679
- Leonard, Olen E., low-income families in Spanish-surname population of Southwest, 9389
- Leonard, Regis F., elastic and inelastic scattering of alpha particles from even tellurium isotopes, 11536
- Leone, Oliver Q., electrorefining of titanium-nitrogen alloys, 2582
- Leong, Roderick, evaluation of pump and reeled hose system for studying vertical distribution of small Plankton, 14065
- Leonhardy, Henry P., relief, 318, 567, 847
- Lepidoptera, *see* Microlepidoptera—Moths—Stenomitidae.
- Leshner, Richard L., assessing technology transfer, 2619
- Lesions, colorectal polypoid lesions, 14772  
*see also* Chorioretinal.
- Lesotho, *see* South Africa.
- Les progress de l'instruction publique aux Etats-Unis d'Amerique, 1966-67, 13955
- Lessert, Clement, or heirs, relief, 610
- Lethal dose, gamma radiation LD 50(30) for rabbit, 17347
- Lethata, *see* Microlepidoptera.
- Let's cook fish! complete guide to fish cookery, 9515
- Let's face it, security is up to you, 10901
- Letters, transportation restrictions, private express, statutes, 17120
- Lettuce:  
film-wrapped and naked-packed, market quality, 10152  
head lettuce held in low-oxygen atmospheres, market quality and rate of respiration, 10180  
temperatures, relative humidity, and atmosphere composition in mechanically refrigerated car and trailer loaded with lettuce, 15825  
transit temperatures and crushing in transcontinental shipments, effect of load pattern, 11916  
western, shipped in piggyback trailers, nitrogen effect on transit temperatures and market quality, 5644
- Leukemia:  
childhood leukemia, pamphlet for parents, 18157  
human, recent research on viroid etiology, Rumanian studies, 6549  
murine leukemia, conference, 1583
- Leukosis, *see* Avian leukosis.
- Levadi, Solomon S., claim against U.S., 784, 7639
- Levesque, Richard J., time-optimal response of feedback control systems by means of discontinuous rate compensation, 16898
- Levine, Gerald, relief, 7623
- Levine, Milton, American science manpower, 1964, report, etc., 5323
- Levine, Nathan, relief, 274, 807

- Levinson, David, displaced pottery workers' adjustment to layoff, 1360
- Levinson, William H., studies of multivariable manual control systems, 17934
- Levy hypoxia test, *see* Hypoxia.
- Lewallen, Jay M., modified quasilinearization concept for solving nonlinear 2-point boundary value problem, 12941
- Lewis, Alan G., copepod crustaceans parasitic on teleost fishes of Hawaiian Islands, 11603
- Lewis, Mark F., diagnostic tests of color defective vision, bibliography, 17411
- Lewis, Wayne C., thermal conductivity of wood-base fiber and particle panel materials, 14124
- Lewis and Clark Trail, development, etc., program promotion, report, 2526
- Lewis and Clark Trail Commission:
  - appropriations, 1968—
  - hearings, 7734, 9302
  - law, 12170
  - reports, 10560, 10766, 12252
  - press releases, 3742
  - report of activities, 2526
- Lhermitte, Roger M., probing balloon motion by Doppler radar, 16532
- Liability insurance, uninsured motorist coverage required part of every automobile liability policy, report, 13644
- Liammarl, J. J., international coal trade, monthly inventory, 3433
- Liapunov method:
  - application of Lyapunov stability theory to some nonlinear problems in hydrodynamics, 16915
  - functions for class of  $n^{\text{th}}$  order nonlinear differential equations, 5180
  - Lyapunov functions from auxiliary exact differential equations, 11421
- Libbey, Charles E., wind-tunnel investigation of static aerodynamic characteristics of 18-foot (5.49-meter) all-flexible parawing, 11488
- Libby, Paul A., heat and mass transfer at general 3-dimensional stagnation point, 12869
- Liberia:
  - agricultural commodities, agreement, 2891
  - background notes, 17214
  - housing, basic information, 6421
  - labor conditions, 1377
  - mineral industry, minerals yearbook chapter, 6654
- Lieberman, D. S., failure reporting and management techniques in Surveyor program, 14406
- Liberty:
  - contemporary international Communist workers, and national-liberation movement, USSR studies, 5003-4
  - outlook for freedom (address), 1629
- Librarians:
  - examination announcements, 4404, 10417
  - Veterans Administration installations, 10411
  - library manpower, occupational characteristics of public and school librarians, 4713
  - National Library of Medicine, library associate program, curriculum, qualifications, etc., 5302
  - school library personnel, national defense education act, institutes for advanced study, summer 1967 handbook, for directors, 1003
  - vacancy roster, Federal Government libraries, 3337
  - Veterans Administration hospitals, nationwide career information, 18248
- Libraries:
  - Air Force, buying calendar for annual publications, 8859
  - Army technical library improvement studies, 10265
  - Libraries—Continued
    - college library resources program, grants for library materials, policies and procedures manual, 9405
    - depository, law governing, and list of libraries, 7765
    - depository libraries, list, 3568
    - Federal Government, rosters of libraries and vacancies, 3337
    - higher education act of 1965, administration of programs, 1966, notes and working papers, 12422
    - it's the latest, it's the greatest, it's the liber-ee, bringing libraries to the people, 12466
    - library and information science, research program, 7901
    - library manpower, occupational characteristics of public and school librarians, 4713
    - library services an construction act, extend and amend—
    - law, general information, 1135
    - report, 16298
    - new serial titles—
    - classified subject arrangement, 3626
    - union list, alphabetical arrangement, 3627
    - opportunities for health science libraries, 6941
    - school, resources, acquiring under ESEA, guidelines, 16513
    - statewide long-range planning, conference report, 1016
    - technical library services, user's guide, Army pamphlets, 10265
    - see also* Bookmobiles—Children's literature—also names of departments, etc.—also names of libraries or places where located.
  - Library accessions:
    - Adjutant General's Office, Army Library, 3864
    - Ceylon, American Libraries Book Procurement Center, New Delhi, 11337
    - Federal Fire Council, list, 3511
    - foreign statistical publications, 3350
    - India, American Libraries Book Procurement Center, New Delhi, 3416
    - Indonesia, American Libraries Book Procurement Center, Djakarta, 3419
    - Interior Department, 3509
    - Israel, American Libraries Book Procurement Center, Tel-Aviv, 3450
    - Labor Department Library, 3866
    - Middle East, American Libraries Book Procurement Center, Cairo, 3554
    - Nepal, American Libraries Book Procurement Center, New Delhi, 3618
    - Pakistan, American Libraries Book Procurement Centers, Karachi and Dacca, 3673
    - Reclamation Bureau Library, list, 3504
    - Russian, Library of Congress, monthly index, 3575
  - Library Committee, Federal, *see* Federal Library Committee.
  - Library list, National Agricultural Library, 1517, 8515, 14505
  - Library of Congress:
    - accessions—
    - Ceylon, American Libraries Book Procurement Center, New Delhi, 11337
    - India, American Libraries Book Procurement Center, New Delhi, 3416
    - Indonesia, American Libraries Book Procurement Center, Djakarta, 3419
    - Israel, American Libraries Book Procurement Center, Tel-Aviv, 3450
    - Middle East, American Libraries Book Procurement Center, Cairo, 3554
    - Nepal, American Libraries Book Procurement Center, New Delhi, 3618
    - Pakistan, American Libraries Book Procurement Centers, Karachi and Dacca, 3673



Library of Congress:

- accessions—continued
  - Russian, monthly index, 3575
- appropriations, 1968, legislative—
  - hearings, 10633, 12398
  - law, 13537
  - reports, 10617, 13672, 13813
- archive of recorded poetry and literature,
  - checklist, 5089
- calendar of events, 3072
- cataloging service bulletin, 3081
- catalogs—
  - books, subjects, 2529, 3505
  - dictionary, subject headings used, 3910
  - motion pictures and filmstrips, 3506
  - music and phonorecords, 15459
  - national register of microforms masters, 2530
  - national union catalog, 3601
  - annual cumulation, 1393
  - manuscript collections, 2531
  - register of additional locations, 16838
- classification—
  - additions and changes, quarterly list, 3464
  - class G, geography, etc., 5086
  - class L, education, 5087
  - class P, subclass PQ, French literature, 2527
  - class Q, science, 9749
  - class R, medicine, 5088
  - class U, military science, 2528
- collection of papers of—
  - Chambers, Washington Irving, 11340
  - Schurz, Carl, 8330
- information bulletin, 3421
- national reference library of children's books, 2532
- PL 480 newsletter, 3507
- President's papers index series, 6623
- Public law 480 project, accessions list—
  - Ceylon, 11337
  - India, 3416
  - Indonesia, 3419
  - Israel, 3450
  - Middle East, 3554
  - Nepal, 3618
  - Pakistan, 3673
- publications in print, 11339
- publications, price list, 10041
- quarterly journal, 3795
- report, 1966—
  - departmental edition, 11336
  - document edition, 10500
- Library recordings, checklist of archive of recorded poetry and literature in Library of Congress, 5089
- Library science move the information, use of computers, etc., 14766
- Library services of National Clearinghouse for Smoking and Health, 11740
- Libya:
  - capsule facts for Armed Forces, 11978
  - labor conditions, 1378
  - mineral industry, minerals yearbook chapter, 6655
- Licciardello, J. J., effect of repeated treatment with gamma rays on radio-resistance, virulence and culture characteristics of certain pathogenic and related bacteria, 12618
- Lice:
  - amblyceran Mallophaga found on hornbills, 8541
  - Carriker on Mallophaga, posthumous papers, catalog of forms described as new, and bibliography, 15599
  - eradication agents investigated, USSR study, 4967
- Licenses:
  - AEC licensing guide, 15957
  - drivers, statistics, 17176
  - export, approved and reexportations authorized, list, 3250
  - nuclear reactors, hearings, 12184

Licenses—Continued

- see also Liquors—also classes of persons to whom, or subjects for which, licenses are issued.
- Lichee, see Litchi.
- Lidar observations of Pre-Gondola I clouds, 17397
- Lie series, see Algebra.
- Liens:
  - established by judgment or decree by District of Columbia Court of General Sessions, recordation by recorder of deeds—
    - law, 1971
    - reports, 2026, 2102
  - establishment by judgment or decree by U.S. District Court for District of Columbia, report, 12385
  - Farmers Home Administration, release of valueless liens, etc., permit, report, 15090
  - Federal tax lien act—
    - law, 433
    - legislative history, 757
    - report, 656
  - masters of certain vessels for wages and disbursements, grants—
    - hearings, 10663
    - reports, 12250, 17632
- Liepins, Atis A., vibration study of pressurized torus shell, 16908
- Liesegang rings, bibliography, 15590
- Life:
  - processes—
    - effect of solar activity, USSR study, 1213
    - effects of radiation and radiolotopes, bibliography, indexes, 13343
  - Life cycling test on several strain gage pressure transducers, 18083
  - Life insurance:
    - credit, for student loans, increase maximum amount allowable in D.C., report 882
    - Federal employees group act of 1954, amend, increasing coverage, etc., veto message, 4467
    - Federal employees group insurance—
      - annual report, 7540
      - FPM manual, supplement, 3302
      - increase coverage—
        - hearings, 6124, 10673
        - reports, 13662, 13806
      - veto, 16155
    - national service—
      - refunds, Philippine peso payments—
        - law, 372
        - report, 905
      - regular dividend schedules, 8780
    - servicemen's group life insurance program, annual report, 8778
    - veterans and servicemen, government programs, annual report, 8779
  - Life insurance companies:
    - alien, operating in D.C., public announcement of financial condition, report, 16292
    - farm mortgage lending experience, 9395
    - income tax spin-off, report, 15093
    - nonfarm mortgage investments, 15241
  - Life lines, U.S. sea lanes, impact of waterborne commerce on American industrial productivity, 8574
  - Life protection series, FDA's, 9522-23, 12562
  - Life sciences, research objectives, 1967, OAR, 7336
  - Life spent in a favorite work, review of book, USSR, 1177
  - Life support systems:
    - closed system, conference on problems, etc., 15515
    - integrated, contaminant producing materials within, environmental testing, 11416
    - space flights of extended time periods, 1425



# INDEX 1967

- Life tables:**  
National Center for Health Statistics, data, bound volume, 5444-45  
State, 1959-61—  
Alabama-Missouri, 5444  
Montana-Wyoming, 5445  
variance and covariance of functions estimated from sample of deaths, 8657
- Lift (aircraft):**  
all-flexible parawing for landing lifting-body spacecraft, low-speed tests, 11550  
vortex, of sharp-edge delta wings, concept based on leading-edge-suction analogy, 2726  
VIOL aircraft with jet-ejector system for lift augmentation, wind-tunnel investigation, 2706
- Lift fan technology studies, 11402**
- Lifting, safety, proper way to lift, 6601**
- Lifting bodies, 8430**
- Ligand molecules, see Molecules.**
- Light:**  
adaptation, homogeneous field, 4255  
color modulation of stationary beam, 2628  
electro-optic modulators, 1489  
exposure of men to intermittent photic stimulation under simulated IFR conditions, 5802  
induced free radicals in wood, 4846  
insect trapping with, student, or classroom science project, 4136  
intensity data of Trailblazer I reentry bodies, summary, 2690  
intensity modulator withstands high heat fluxes, 2657  
laser system generates single-frequency light, 16943  
ophthalmoscopy in indirect light, USSR study, 12688  
photobiology, 10311  
point-source sensor circuit is insensitive to background light, 2637  
scattering—  
gas density measurements, 11490  
in highly reflecting pigmented coatings, summary of investigations, 14392  
study of biological macromolecules, Romania, 14234  
source detector improved, photocell shadowing technique, 2674  
sources for remote sensing systems, 16893  
transmission through plane water surface and its return by submerged retroreflector, 13031  
see also Polarization (light).
- Light filters:**  
electronic filter discriminates between true and false reflections, 9837  
exposure value (EV) system expanded to include filter factors and transmittance, 6765  
transmission characteristics of auto analyzer colorimeter filters determination, 7352
- Light lists, see Lights and lighting.**
- Light modulators, electro-optic and magneto-optic, 11487**
- Lighthouse Service:**  
cost-of-living annuity adjustments, report, 12253  
former employees—  
retired pay, increase, report, 12256  
retirement age, lower requirement, report, 12251  
widows of former employees, increased annuities, report, 12253  
widows of former professional employees, provide annuities, report, 12254
- Lighting, see Lights and lighting.**
- Lighting equipment, see Lights and lighting.**
- Lightning:**  
ball, USSR study, 1332  
general information, safety rules, etc., 6229
- Lightning arrestors, consolidated identification list for test evaluation, Federal supply catalog, Department of Defense section, 3318, 7855**
- Lights and lighting:**  
Coast Guard lists—  
Atlantic and Gulf Coasts, and Antilles, 12123  
Atlantic coast, local, 14877  
Great Lakes, 9003  
Mississippi River system, 9004  
Pacific Coast and Pacific Islands, 16089  
colors of signal lights, selection, definition, measurement, production, and use, 8522  
desk light, Federal standard, 17764  
determining scattering and absorption coefficients of paper by diffuse illumination, 11114  
economy approach lighting aids for airports, 10245  
electric lighting fixtures, current industrial reports, 5858  
fixtures, Federal item identification guides for supply cataloging, supplements, 3289  
high intensity runway lighting system, 12499  
illumination for safety in industry, instructor outline, 8296  
illumination levels for various kinds of industrial work, student reference, 9731  
light sources for remote sensing systems, 16893  
maintenance of lights in Red Sea, agreement, 8729  
Naval Oceanographic Office, lists—  
Baltic Sea with Kattegat, etc., 1539, 7005, 11645, 18101  
British Isles, etc., 5334, 11644  
Europe and Africa, west coasts, etc., 1538, 5333, 11643, 18100  
Greenland, etc., 5331, 9972, 14578  
North and South America, west coasts, etc., 1537, 7004, 11642, 18099  
Norway, Iceland, and Arctic Ocean, 5335, 8572  
Pacific Ocean, western, etc., 5332, 9973, 14579  
outdoor recreation, lighting for, 10331  
panels illuminated by edge-lighted lens technique, 5204  
temporary lights for flammable and general use, maritime safety data, 17889
- Lignin:**  
effect of inorganic salts on pyrolysis determined by dynamic thermogravimetry, 8103  
production and detection in wood, 8060
- Lignite:**  
pulverizing in ball mill, 15476  
technology and use, Mines Bureau-University of North Dakota Symposium, 1965, proceedings, 1398  
thickness of bituminous coal and lignite seams mined, 14327  
see also Coal.
- Lignite tar, see Tar.**
- Lim Al Ran, relief, 16180, 17528**
- Lim, Benjamin H.:**  
mineral industry of—  
Cambodia, Hong Kong, Laos, North Viet-Nam and South Viet-Nam, 11358-359  
Japan, 12803  
Venezuela, 12809
- Lim Soo Ran, relief, 16180, 17528**
- Lim rust, damage to pine trees, 4848**
- Lime:**  
mineral industry survey, monthly, 3508  
minerals yearbook chapter, 2546  
structure, effect in oxygen steelmaking, 6682
- Lime-soda sintering:**  
alumina—  
extractability from snorthosite, correlation of reaction products, 9784

Lime-soda sintering—Continued  
alumina—continued  
produced from clay, evaluation of  
process, 9779

**Limestone:**

crushed, coarse aggregate, 3- and 6-in.  
maximum size, contained in mass con-  
crete, comparison of properties, 4745,  
6216

imported for use in manufacture of cement,  
duty-free treatment—

law, 10483

reports, 9092, 10563

Mammoth Cave area, hydrology, 1132

Tertiary, artesian water, in Southeastern  
States, 6399

Twin Creek limestone (Jurassic) in west-  
ern interior of United States, 8168

Winchell, Brown County, Tex., Fusul-  
lidae, 12615

**Limitations (law):**

District of Columbia, amend statute of  
limitations in civil actions arising  
from unsafe property improvements—  
hearing, 17596  
report, 16295

Limnological studies (series), 8171

Lin, Chuan-jui, plane-stress analysis of edge-  
stiffened rectangular plate, etc., 16895

Lineweaver, F. P., jr., residential water use,  
11206

**Lincoln, Abraham:**

brief biography, 14550

Ford's Theatre, and House Where Lincoln  
Died, general information, 11613

100th anniversary of 2d inauguration,  
ceremonies and reenactment, Mar. 4,  
1965, on east front of Capitol of U.S.,  
16150

White House china of Lincoln Administra-  
tion, 15600

Lincoln Center, student program opens new  
world to teenagers, 12465

Lincoln County, Colo., Big Sandy Creek Val-  
ley, geology and ground-water resources,  
11191

Lincoln Creek formation, Grays Harbor  
basin, southwestern Washington, 12603

Lincoln Memorial, general information, 14550

Lindley, Jonathan, paper, Apr. 28, 1967,  
13929

Lindorff, D. P., control of nonlinear multi-  
variable systems, 6725

Lindsay, Ian R., effects of 55 Mev protons  
on primates, 4179

Lindstedt method, see Mathematics.

Line adapter provides quick disconnect under  
moderate side loading, 15535

Linear accelerators, see Accelerators.

Linear discriminant analysis of multivariate  
assay and other mineral data, 6680

Linear equations, see Equations.

Linear ion accelerators, see Accelerators.

Linear programming:

circuit analysis for IBM 1620 Monitor IV,  
etc., 15525

interindustry relationships, potential de-  
mand, 1970, employment projections,  
2508

1970 input-output coefficients, 17891

see also Electronic computers.

Linear systems, space vehicle flight control  
systems, 15497

Linearized error analysis of onboard pri-  
mary navigation systems for Apollo lunar  
module, 15556

Linehan, Mary B., relief, 17534, 17621

Lines, see Electric lines—Telephone lines.

Lineweaver, Hans, heat stability of egg  
white proteins under minimal conditions  
that kill salmonellae, 11918

Lin-fu, Jane S., lead poisoning in children,  
16042

Linings, fuel tank, effects of jet fuel anti-  
icing additive, final report, 9991

**Link, Richard F.:**

computer method of fitting surfaces to  
assay and other data in three dimen-  
sions by quadratic-regression analysis,  
2580

linear discriminant analysis of multivari-  
ate assay and other mineral data, 6680

Linnehan, John J., nomination, hearing, 4657

Linsenmayer, Tadd A., establishing business  
in Taiwan, 10462

Linters, see Cotton.

Linton, Roger, thermal design evaluation of  
Pegasus, 2687

Linton report, strategy for livable environ-  
ment, 12622

**Lipids:**

phospholipids, metabolism in experimental  
atherosclerosis of the liver, USSR study,  
1275

skin surface, use of infrared absorption  
spectroscopy for representation, Yugo-  
slavian study, 12667

Lipman, P. W., compositionally zoned ash-  
flow sheet in southern Nevada, 1120

Lippold, Richard W., urban housing market  
analysis, 11205

Lipton, Arthur H., alignment of inertial  
systems on moving base, 16976

Lipton, W. J., market quality and rate of  
respiration of head lettuce held in low-  
oxygen atmosphere, 10180

Liquefied gases, see Gas—Gases—Liquefied  
petroleum gases.

Liquefied petroleum gases, shipments, 15484

Liquid crystals:

detect voids in fiberglass laminates, 16941

practical application, USSR study, 1223

Liquid fuels:

flammability properties in volatile com-  
ponents at low concentration, 17094

specific impulse increased by addition of  
solid oxidizer, 9331

see also Fuel oil.

Liquid heaters and vaporizers, classifica-  
tion definitions, 18122

Liquid hydrogen, see Hydrogen.

Liquid level gages, circuit automatically cal-  
brates flowmeter against gage reference,  
17986

Liquid metals, see Metals.

Liquid micurgy chamber and microsyringe  
designs allow more efficient micromanipu-  
lations, 16882

Liquid nitrogen, see Nitrogen.

Liquid oxygen, see Oxygen.

Liquid propellants, see Propellants.

Liquidity (economics):

and monetary management in 1967 (re-  
marks), 16593

request for liquidity (remarks), 17270

**Liquids:**

contact with solids, classification defini-  
tions, 18124

corrosive, positive displacement cylinder  
measures volume, 6756

cyrogenic—

experiment in orbit, settling and inter-  
face dynamics, 2608

reclamation system, 18007

dynamic behavior in moving containers,  
with applications to space vehicle tech-  
nology, 5189

dynamics of 2-phase liquid-gas weightless  
medium with aid of surface effects, con-  
trol, 11562

incompressible, bending circular plates  
confining, 97

liquid-liquid heat transfer, evaluation for  
large-scale desalination, 14200

liquid structure, effect on contact angle  
hysteresis, 9987

low rate flow switch can be used for gas  
or liquid, 8477

mass transfer through liquid interface,  
mechanism, 8215

organic, effect of adsorbed water upon  
spreading on soda-lime glass, 18110

# INDEX 1967

- Liquids—Continued**  
 outflow from cylindrical tanks during weightlessness, experimental investigation, 2720  
 purification or separation, classification definitions, 13046  
 sloshing in elastic containers, 16906  
 substrate, critical surface tension for spreading, 10006  
 surface motion in response to lateral acceleration during weightlessness, 12966  
 transient solidification of warm liquid flowing over chilled flat plate, 12935  
 weightlessness, frequency and viscous damping, experimental investigation, 15571
- Liquors:**  
 alcohol & flying don't mix, 14811  
 alcoholic beverages, commercial importation, 971  
 District of Columbia alcoholic beverage control act, amend—  
 hearings, 949, 12294  
 reports, 14993-994, 16258  
 impairment of airmanship by alcohol, 4251  
 imports into D.C., limit—  
 hearings, 12294  
 report, 14993  
 intoxicating—  
 code of Federal regulations, 6295  
 require interstate shipments be accompanied by bill of lading, etc., amend U.S. Code, report, 16254
- Lisburne, Cape, coal resources of Cape Lisburne-Colville River region, Alaska, 15306**
- Lisburne Peninsula, Chariot site, areal geology, 8162**
- Liske, E., auto- and cross-correlation of EEG following unilateral caloric stimulation of labyrinth, 71**
- Lisle, Alan G., jr., USAF instructors journal, 4011**
- Lissothuria, see Sea cucumbers.**
- Lists, see subjects of lists.**
- Lita group, see Microlepidoptera.**
- Litchard, Ralph J., land conveyance to, 13579, 13776, 14891**
- Litchfield, Elton L., minimum ignition energy and quenching distance in gaseous mixtures, techniques and apparatus, 15475**
- Litchi, fresh lychees, maintaining market quality during storage and transit, 37**
- LITE Project, see Project LITE (legal information through electronics).**
- Literary gazette, USSR, Mao's cultural revolution, review, 12760**
- Literature, recorded, check-list of archive in Library of Congress, 5089**  
*see also* Children's literature—French literature.
- Lithium:**  
 magnesium-lithium alloys—  
 coating protects against corrosion, 11477  
 developed for low temperature use, 17976  
 properties and current applications, 8441
- Lithium fluoride, molten, reaction rate with solid yttrium metal, 15474**
- Lithium hydroxide, electron optical survey of iron oxide films produced in H<sub>2</sub>O, LiOH, and LiOH/EDTA solutions, 8594**
- Lithium silicates, see Silicates.**
- Lithium sulfate, heats of formation, 2577**
- Lithography, chemicals, military standard, 9377**
- Litigation, see Actions at law.**
- Little, Elbert L., jr., natural hybrids among pond, loblolly, and pitch pines, 14137**
- Little, Ralph C., drag reduction by dilute polymer solutions in turbulent flow, 14592**
- Little, S., treatments needed to regenerate yellow-poplar in New Jersey and Maryland, 17804**
- Little blue book, 8971**
- Little Blue River:**  
 vicinity of Kansas City, Mo., engineer report—  
 departmental edition, 17732  
 document edition, 17569
- Little Calumet River, pollution of interstate waters, progress evaluation meeting, 14053**
- Little Joe II (launch vehicle), see Spacecraft.**
- Little River, S.C., to Rio Grande, Tex., and Antilles, light list, 12123**
- Little Rock, Ark., area wage survey, 1361, 17896**
- Little Sandy River:**  
 engineer report—  
 departmental edition, 2210  
 document edition, 2008
- Little Sioux River, control structure, hydraulic model investigation, 7931**
- Littoral:**  
 sands in vicinity of Point Arguella, Calif., processes, 7924  
 transport, correlation with wave energy along shores of New York and New Jersey, 7925, 10954
- Liu, Y. N., analysis of dynamics of supercritical shafts on many flexible supports by using transmission line analogy, 1773**
- Live stock, see Livestock.**
- Liver:**  
 glycogen in anesthetized dog, hydrazine effect, 7359  
 metabolism of nucleic acids, phosphoproteins and phospholipids in experimental atherosclerosis, USSR study, 1275  
 rats, endrin and carbon tetrachloride comparison of acute effects on, 4252  
 Weil stain, histochemistry, aerial application, problems, 10320
- Livermore 1=2 stellerator, 13329**
- Livestock:**  
 animal industry, publications, price list, 2800  
 automatic feeding equipment, 8830  
 census of agriculture, 5903-4, 7499-7510, 8962-65, 10388-398, 12091-92, 13404-412, 14837-839, 16036-40, 17442  
 claims, packers and stockyards act can help you recover losses, 1712, 15869  
 dealers, recordkeeping under packers and stockyards act, 44  
 estimates, background on revisions, 8752  
 export financing, 14076  
 exports, expansion, potentials and problems, report, 10794  
 farm production, etc., 18234  
 feeding by certain packers, prohibit, hearings, 2037  
 foot-and-mouth disease, menace to North American livestock, control and eradication progress, 7252  
 foreign agriculture circulars, 3345  
 foreign crops and markets (periodical), 3344  
 grain-livestock economy of European Economic Community, 1951-63, historical review, 2176
- Industry—**  
 Argentina, 11099  
 Mexico, 8048  
 New Zealand, 11097  
 Uruguay, 11098  
 USDA's work with cattlemen for larger markets, better products and more profit (address), 7259  
 insecticides, guide, 10162  
 inventory, 5682, 7198  
 livestock and meat situation, 3517  
 livestock-meat economy, simulated inter-regional models, 12453  
 market news, weekly summary and statistics, 3518  
 markets, electrically operated gates, 10153  
 meat animals, farm production, etc., 10201

**Livestock—Continued**

packers and stockyards act as it applies to auction markets, 15870  
raising on small farm, 1692  
regulatory establishments, circuits, and officials, 4071  
slaughter—

commercial slaughter, meat and lard production, etc., 11879  
monthly report, 3519

statistics—  
1965 supplement, 4143  
1966 supplement, 13248

tobacco-livestock commercial farms, costs and returns, Bluegrass area and Pennyroyal area, Ky.-Tenn., 16490

western range and livestock, monthly report, 4062  
*see also Food for livestock.*

Living conditions, *see* Cost and standards of living.

Living expenses, *see* Cost and standard of living.

Liwshitz, Mordehai, binary diffusion in exponential medium, 2704

Lizardite, solution studies, 8160

**Lizards:**

Ecuador, check list and key, 6948  
iguana, *Anolis lineatopus*, ecology and social organization, 15602

Llorens, Jacinta, relief, 293, 862

Lloyd, Dallas, arms control and disarmament, studies in progress, etc., 5531, 13143

Lloyd, Gordon, Canadian wheat marketing, 4816

LMRDA, *see* Labor-management reporting and disclosure act of 1959.

Lo Che Yim, *see* Loh, Che Yim.

**Load (mechanics):**

assumptions for buildings, Army technical manual, 108

asymmetric loads, computer program for finite-difference solutions of shells of revolution, 11497

buckling load of truncated conical shells, influence of prebuckling deformation, 5187

cellular structure as load-bearing structural elements, Hungarian study, 4956

complex fatigue loading, equipment and techniques, 5748

deformation of shallow spherical sandwich shells under local loading, 6895

drag measurements in stream with sinusoidally fluctuating velocity in longitudinal direction, 5749

dynamic characteristics of soils, measurement with penetrometers, 14396

effect of edge loadings on vibration of rectangular plates with various boundary conditions, errata, 12919

external loading, buckling of pressurized toroidal ring, 15570

friction brake cushions acceleration and vibration loads, 6771

helicopter hingeless rotor system structural loads, exploratory flight investigation and analysis, 1487

impulsive loads, aircraft passenger-seat system response, 17388

influence of reinforcing details on yield line pattern and ultimate load-carrying capacity of reinforced concrete slabs, 17736

initial load and exposure to moderately elevated temperature effect on room-temperature fatigue life of Ti-8Al-1Mo-IV titanium-alloy sheet, 14464

laboratory stress-deformation characteristics of soils under static loading, 2596

landing loads on vehicle with tricycle landing gear, theoretical dynamic analysis, 14472

lateral ring metal elastic wheel absorbs shock loading, 6821

**Load (mechanics)—Continued**

launch vehicle flight loads, effect of canards in reducing, 14496

linear load distributions, cone-cylinder-frustum-cylinder configurations, 9804

linearly varying axial load, upper and lower bounds for eigenvalues of vibrating beams, 2609

load relief, analysis and design of space vehicle flight control systems, 15502

nonuniform radial, applied to boundary of circular hole in infinite plate, 17914

performance changes of axial-flow compressors under high loading, 9916

plane-stress analysis of edge stiffened rectangular plate, subjected to boundary loads, etc., 16895

rocket engine asymmetric loads during tests at sea level, elimination, 6831

rotor air loads, etc., caused by transient inputs of shaft torque as related to stoppable rotor operations, 13308

self-actuating grapple automatically engages and releases loads from over-head cranes, 5150

single-source mechanical loading system produces biaxial stresses in cylinders, 17990

turbine blade loading, advanced concepts to increase, experimental investigation, 12850

uniform and variable loads, equations provide tabular information on effects on thin, flat, circular plates, 8399

web belt load measuring instrument has excellent stability, 14436

Loader, Maurice, and wife, relief, 7625

**Loaders (mechanical):**

front-end loaders, fatal accidents occurring during operation, analysis, 16856

microscope slide loader for thin-layer chromatography, 13272

tractor loader, how to inspect chain, 9684

Loading, *see* Load (mechanics)—Unloading and lading.

Loan associations, *see* Federal savings and loan associations.

Loan companies, *see* Finance companies.

**Loans:**

auto loans characteristics at major sales finance companies, 7992

borrowing authority for District of Columbia—

bearing, 13857  
reports, 13631, 13824

business loans, revision in quarterly survey of interest rates, 11059

college housing, savings through more frequent payments, GAO report, 17814

commercial and industrial—  
by industry, revised series, 6302

outstanding by industry, 3108

constitutionality under certain acts, judicial review, report, 10729

defense production, guarantees, regulations, 1066

economic injury disaster loans for displaced small businesses, 14643

Economic Development Administration—  
business loans, who can borrow, how to apply, 6160, 13930

grants and loans for public works and development facilities, 7869, 13935

educational, for dependents of Army personnel, 17383

educational scholarships, loans, and financial aids, 1

**Farmers Home Administration—**

community centers, recreational enterprises, industrial development, etc., hearings, 15145

increasing farm and ranch income through grazing associations, 1717

insured, increase annual ceiling, hearings, 15145

insured, information for lenders, 4132

# INDEX 1967

## Loans—Continued

Farmers Home Administration—Con.  
 opportunity loans, 8839  
 rental & co-op housing in rural areas,  
 10194  
 resource conservation and development,  
 10193  
 rural housing, 10188  
 Federal credit unions to directors, etc.,  
 amend act—  
 hearing, 10643  
 law, 12179  
 reports, 9283, 10603  
 Federal Housing Administration—  
 insured loans for major home improve-  
 ment, 4904  
 three ways to finance home improve-  
 ments, 11202  
 Federal loans to D.C., authorization, in-  
 crease, hearings, 10646  
 Federal reserve member banks to their  
 executive officers—  
 limitation, amend—  
 hearings, 7500, 10643  
 law, 12179  
 reports, 9283, 10603  
 regulations, amendment, 12534  
 financial intermediaries' role in U.S. capi-  
 tal markets, 6303  
 Government, efforts to have borrowers re-  
 finance loans when private or coopera-  
 tive credit becomes available, Farmers  
 Home Administration, GAO review, 1103  
 Greek refugee repatriation, 1929, settle-  
 ment acceptance, law, 470  
 higher education act of 1965—  
 administration of programs, 1966, notes  
 and working papers, 12422  
 student loan program, 6% payment ta-  
 bles and amortization schedules, 7910  
 home owners' loan act of 1933, amend,  
 hearings, 15019  
 housing—  
 guaranteed by VA in Illinois, potential  
 savings by revising procedures relat-  
 ing to default, GAO report, 11151  
 insurable, digest, 6433  
 senior citizens, through nonprofit cor-  
 porations, 2383  
 land bank, stockholder personal liability  
 on, report, 15130  
 national defense student, college work-  
 study program, and list of participating  
 institutions, 1965-66, 1001  
 naval vessels to friendly foreign countries,  
 authorize—  
 extension, reports, 2025, 2101  
 report, 10555  
 nursing student program, information,  
 11747  
 opportunity loan program in rural Amer-  
 ica, story in pictures and words, 5674  
 participation, with SBA, guide for private  
 lending institutions, handbook, 5490  
 property improvement loans, consumer  
 bulletin, 8197  
 repaid price-support loans and storage  
 facility and equipment loans, savings if  
 Commodity Credit Corporation recovers  
 interest costs, GAO report, 16678  
 Rural Electrification Administration—  
 program, statistical report, 18199  
 RBA borrows, electrification systems,  
 materials acceptable for use, list,  
 8672  
 savings and home financing, source book,  
 1966 data, 14023  
 schools, nonprofit private elementary and  
 secondary, for equipment and materials,  
 national defense education act, 1007  
 senior citizens housing loan program, in-  
 formation for applicants, 16712  
 Small Business Administration—  
 economic opportunity loan programs,  
 13114

## Loans—Continued

Small Business Administration—Con.  
 financial assistance programs, review,  
 16439  
 502 program for community style self-  
 improvement, 11789  
 lending objectives, etc., 2855, 13117  
 local development company loans, 8678  
 economic growth at community level,  
 1599  
 small towns and rural groups, Oklahoma,  
 financial assistance for water systems  
 and waste disposal systems, questions  
 and answers, 7945  
 soil conservation and allotment act, amend  
 with respect to assignment of payments,  
 law, 455  
 student loan insurance act of 1965, stu-  
 dent loan program, 6% payment tables  
 and amortization schedules, 7910  
 student loan program, health professions,  
 5435, 17149  
 students, guaranteed, by States, list, 2177  
 title 1, property improvement loans, con-  
 sumer bulletin, 6425  
 truth in lending, revolving credit provi-  
 sions, hearing, 12402  
 veterans—  
 home buying guide, 17286  
 housing, VA guaranty and direct loan  
 program, hearings, 12419  
 World War I. loans made upon security  
 of adjusted-service certificates, can-  
 cel certain unpaid interest—  
 law, 449  
 report, 918  
 veterinary medicine students, law, 423  
 vocational student loan insurance act of  
 1965—  
 amend, hearings, 15026  
 eligible institutions, lists, 2181, 6181  
 water development and soil conservation,  
 questions and answers, 4131  
 watershed loans available from Farmers  
 Home Administration, questions and an-  
 swers, 4129  
 see also Banks and banking—Federal sav-  
 ings and loan associations—Mortgages—  
 Revolving funds—Savings and loan as-  
 sociations.  
 Loban, Walter, language ability, grades 7-9,  
 2186  
 Loblolly pine, see Pine.  
 Local board memoranda, 3521  
 Local development company loans, 8678  
 Local government, see Government.  
 Local public agency letters, 3523  
 Local transit:  
 modal split, documentation, of 9 methods  
 for estimating transit usage, 7100  
 National Capital region program, modify-  
 ing, report, 16294  
 operating employees, union wages and  
 hours, 14300  
 Location identifiers, airport, etc., handbook,  
 3524, 11970  
 Lock-disconnect mechanism gives positive  
 release to joined bodies, 11460  
 Locker plants, see Cold storage.  
 Lockette, Emory W., economic data for equal  
 employment opportunity program, Yuma,  
 Ariz., 11771  
 Lockhart, L. B., jr., filter pack technique for  
 classifying radioactive aerosols by particle  
 size, 10017  
 Lockhart, R. W., feasibility study of boiling  
 water reactor nuclear steam supply sys-  
 tems, 17391  
 Lockheed-California Company, wage chro-  
 nology, 9742  
 Locks (hydraulic engineering):  
 Arkansas River project, low-lift locks, fill-  
 ing and emptying systems, hydraulic  
 model investigation, 4743

- Locks** (hydraulic engineering)—Continued  
McAlpine Locks and Dam, Ohio River, navigation conditions, hydraulic model investigation, 6210  
Welland Canal, fees, agreement with Canada, 11872  
see also names of locks.
- Locks and keys**, Federal item identification guide, keys, 17696
- Lockwood, Vernard E.**, effects of Reynolds number and flow incidence on force characteristics of family of flat-front cylinders, 9903
- Locomotion**:  
jet shoes, extravehicular space locomotion device, 8483  
self-locomotive performance of lunar explorers, 11501
- Locomotive Inspection Section**, annual report, 11239
- Locomotives**:  
diesel-electric, operation and maintenance, Army technical manual, 1772  
Lugansk locomotive-building plant, book-keeping organization, USSR study, 1293  
procurement for Thailand under military assistance program, Defense Department, GAO report, 6380
- Locust borers**, description, control, etc., 9529
- Locust trees**, locust borer injury, control, etc., 9529
- Locusts**, see *Cicadas*.
- Lodgepole pine**, see *Pine*.
- Loess**:  
China's loess soil, collected works, 5000 forested loess soils after repeated prescribed burns, properties, 8091
- Loewy, Robert C.**, matrix-Holzer analyses for fully-coupled vibrations of clustered launch-vehicle configurations, 5158
- Log cabins**, protecting from injurious insects in eastern United States, 5627
- Logan, Malcolm H.**, effect of earthquake of Mar. 27, 1964, on Eklutna hydroelectric project, Anchorage, Alaska, 6402
- Logan, William B.**, training retail salespeople, 5495
- Logan County, W. Va.**, coal, carbonizing properties, 5130
- Logarithmic amplifiers**, see *Amplifiers*.
- Logarithmic antennae**, see *Antennas*.
- Loger, J. A.**, analysis and calibration of analog to digital encoders, 9891
- Logging**, see *Lumbering*.
- Logic**, see *Reasoning*.
- Logic (symbolic and mathematical)**:  
improved micropower logic circuits, 14461  
logic circuitry used to automatically test shielded cable, 6819  
logic system aids in evaluation of project readiness, 1456  
one-count circuit prevents machine mode interaction, 6697  
time-shared, employed by nixie tube display unit, 5149
- Logical decision**, Army ROTC, 4210
- Logistics**, see *Military art and science*—*Naval art and science*.
- Logs**:  
electronic computer program for calculating saw log lumber recovery and value, 14080  
veneer log production shows increase in 1965, Lake States, 14096
- Logtown, Miss.**, land lessees, relief, 251, 2081
- Loh, Che Yim**, relief, 341, 541
- Lohman, Joseph D.**, police and community, dynamics of their relationship in changing society, 13061
- Lomax, Harvard**:  
numerical integration methods for computing flow of gas in chemical non-equilibrium, 15568  
operational unification of finite difference methods for numerical integration of ordinary differential equations, 11559
- Lombardi, John**, high reliability screening of semiconductor and integrated circuit devices, 9800
- Lomont, T.F.**, batteries, classification definitions, 18125
- Lompoc, Calif.**, hydrologic inventory, 1957-62, of area, 1117
- London, England**, U.S. trade center, 12654
- Long Beach, Calif.**:  
area wage survey, 12773  
naval station, adjust legislative jurisdiction of U.S. over lands within—  
hearing, 16308  
reports, 16268, 17625
- Long Island R.R.**, emergency board report, 13966
- Longevity, Drosophila**, 9923, 9925
- Longitudinal study of acuity and phoria among submariners**, 12791
- Longleaf pine**, see *Pine*.
- Longshoremen**:  
longshoremen's and harbor workers' compensation act, as extended, 1019  
regulations governing administration, 4726  
suggested safe practices, 12767
- Longwall mining**, see *Coal mines and mining*.
- A look at Kentucky's lumber industry**, 11136
- Looking ahead with SIC**, 181
- Loomis, R. A.**, economic survey of northern Lake States region, 7880
- Looms**:  
automating wool weaving looms, 1186  
broad-woven goods, number in place Dec. 31, 1965, summary, current industrial reports, 5835
- Loopers**, western hemlock, field testing of *Bacillus thuringiensis* for control of, 14140
- Loper, David E.**, analysis of confined magnetohydrodynamic vortex flows, 2606
- Lopez Garcia, Pedro**, relief, 13749
- Lopez, Julio J. Castellanos**, see *Castellanos Lopez, Julio J.*
- Lopez, Oscar**, relief, 9242
- Loran**, loan of long range aid to navigation (Loran-A) equipment to Canada, agreement, 2907
- Lord, George P.**, breathing under high ambient pressure, 12792
- Lore, George R.**, relief, 261, 4578
- Loriz, Andrew**, relief, 9239
- Los Alamitos, Calif.**, undersea warfare laboratory, proposal, subcommittee report and hearings, 13698
- Los Angeles, Calif.**:  
area wage survey, 12773  
south and east areas, census, population characteristics, errata, 1875  
war on poverty, examination, hearing, 17665
- Los Padres National Forest**, San Rafael Wilderness area established as part of, message from the President, 5995
- Losche, Craig K.**, soil survey of Tucker County and part of northern Randolph County, W. Va., 11812
- Lotan, James E.**, early performance of plusa contorta X banpslana hybrids, 9533
- Lotteries**, prohibit certain financial institutions from participating, hearings, 12292, 16397
- Lottig, Roy A.**, experimental heat-transfer investigation of nonwetting, condensing mercury flow in horizontal, sodium-potassium-cooled tubes, 11541
- Loud speakers**, ultrasonic, for studies of acoustic sensitivity of moths, 4083
- Louisiana**:  
alluvial soil in sugarcane area, deep-tillage investigations, 1672



# INDEX 1967

## Louisiana—Continued

- area measurement report, 13357
- census of agriculture, 1964, State and county statistics, 7509
- census of manufactures, 1963, area statistics, 1840
- census of mineral industries, 1963, area statistics, 4288
- climatological data, 3096
- county business patterns, 12049
- electric rate book, 2250
- Euparixia genus, with description of new species, etc., 15606
- forest tax trends, 8099
- landings, fish and shellfish, 3530
- 1965 annual summary, 1075
- mineral industry, minerals yearbook chapter, 5114
- pine plantations, fertilization uneconomic for forage improvement, 14117
- postal map, 15657
- precipitation data, hourly, 3401
- Project Seesaw, beginning for rural disadvantaged, 8284
- rice, rough, costs of drying and storing, 15864
- salt domes, survey, 2541
- Louisville, Ky., area wage survey, 11320
- Louttit, Richard T., bibliography of translations in neural sciences, 17137
- Love, Carl H., abscissas and weights for Gaussian quadrature, 5284
- Love, Esther M., seafaring wage rates, Atlantic, Gulf and Pacific districts, 14313
- Love, James E., experience of X-15 as reusable space vehicle, 2711
- Love, Travis D., report, Technological Laboratory, Bureau of Commercial Fisheries, Pascagoula, Miss., 4801, 16620
- Love County, Okla., soil survey report, 8699
- Lovelady, Hubert G.:
  - microscope slide loader for thin-layer chromatography, 13272
  - preparation of feces for bomb calorimetry, 1742
- Loving, Donald L., sting-support interference on longitudinal aerodynamic characteristics of cargo-type airplane models, etc., 12938
- Low, George M., lecture, Feb. 17, 1966, 5498
- Low, Philip F., thermodynamic relationships for soils at or below freezing point, etc., 8878
- Low, Seth, foster care of children, trends, etc., 10401
- Lowe, Wyman C., contested election, dismissal, etc., report, 12270
- Lower Devonian period, *see* Devonian period.
- Lower Klamath National Wildlife Refuge, birds, list, 15262
- Lower Monumental Dam spillway and stilling basin, hydraulic model investigation, 10949
- Lower Plateau region, Indians, general information, 6437
- Lowery, David P., effect of spiral grain on pole twist and bending strength, 14126
- Lowman, Paul D., Jr., terrain photography on Gemini IV mission, 11528
- Lowry, J. H., electromagnetic guidance study, 16896
- Lowry, Marlin E., geology and ground-water resources of Laramie County, Wyo., 8179
- Loxahatchee National Wildlife Refuge:
  - birds, list, 11080
  - general information, 8032
- Loxostege, *see* Moths.
- Loxotoma, *see* Microlepidoptera.
- LSD, *see* Lysergic acid diethylamide.
- Lubbock, Tex., area wage survey, 14295

## Lubricants:

- bearing torque and fatigue life studies, 11509
- composites of porous metal and solid lubricants increase bearing life, 6742

## Lubricants—Continued

- cooling-lubricating fluids for metal-working, Hungarian research results in development, 14232
- ester, ether, and hydrocarbon base, temperature limitations in 25-mm bore ball bearings, 15576
- Federal item identification guides for supply cataloging, supplements, 3290
- fused-fluoride coatings, additions, for reduction of low-temperature friction, 5265
- rigging typical supply load for high velocity airdrop, 8889
- solid, use for helicopter transmissions, investigation, 8897
- status of research on lubricants, friction and wear, 17082
- see also* names of lubricants.
- Lubrication, bibliography, 2621
- Lucas, A. C., design of shielded source for irradiation of natural animal populations, 1782
- Lucas, Donald L., high frequency ionospheric telecommunications systems, 2223
- Lucas, James G., gaseous-film cooling of rocket motor with injection near throat, 6882
- Luce, Charles F.:
  - nomination, hearing, 4644
  - remarks—
    - Mar. 9, 1967, 8208
    - Apr. 14, 1967, 8210
- Ludwig, Howard C., some NASA contributions to use of plasma jet technology in chemical processing, 12867
- Ludwig, John H., address, Oct. 1966, 2836
- Ludwig, Lawrence P., improving performance of face contact seal in liquid sodium by incorporation of spiral-groove geometry, 11505
- Lueders, H. G., experimental investigation of advanced concepts to increase turbine blade loading, 12850
- Lugansk, *see* Voroshilovgrad, Ukrainian SSR.
- Luggage, *see* Baggage.
- Lugones, Cesar A., relief, 12338, 16205
- Luidens, Roger W.:
  - Jupiter thigh-thrust round-trip trajectories, 5233
  - round-trip trajectories to moons of Jupiter, 18017
- Luke, Md., motor carrier accident, 16875
- Lull, Howard W., increasing water yield in Northeast by management of forested watersheds, 14136
- Lumb, Dale R., efficient coding system for deep space probes with specific application to pioneer missions, 14493

## Lumber:

- dimension, southern pine, relation of properties to strength, grading, 2327
- exports, 8925, 14814
- Federal item identification guides for supply cataloging, supplements, 3288
- form lumber, deleterious effects on concrete surfaces, 13988
- green oak, presurfacing to reduce surface checking, 2301
- hardwood, production, Appalachian region of Kentucky and Ohio, costs and returns, 4850
- imports, 147, 14815
- industry, Kentucky, a look at, 11136
- northern, Minnesota production declines, 14100
- production and mill stocks, current industrial reports, 12074
- softwood, kiln-dried, dimensional changes after surfacing and during storage, 2300
- straight studs from southern pine veneer cores, 8120
- studs, 2 x 4, tree characteristics influence on yield from lodgepole pine, 16654
- see also* Logs.



**Lumbering:**

- clearcut harvesting costs and production rates for young-growth mixed-conifer stands, 4841
- clearcut logging in young-growth timber stands, slash and litter weight, 8087
- designing efficient logging systems for northern hardwoods, using equipment production capabilities and costs, 2330
- loggers, forest products utilization and marketing assistance, 1714
- logging and sawmill operation, Army technical manual, 106
- logging effect on runoff and erosion, 9537
- single-span running skylines, 14102
- skyline tension and deflection handbook, 12584
- soil surface conditions following skyline logging, 14104

**Luminescence:**

- dosimetry, international conference on, proceedings, 10297
- emission spectra of various thermoluminescent materials, 1552
- meteor luminous efficiency, laboratory measurement, 11411
- thermoluminescent dosimetry—
  - observations (paper), 17392
  - systems compared with film badges, 8599
- ultraweak, accompanying biochemical reactions, 14502

**Lunar:**

NOTE.—For other subjects beginning Lunar, see Moon.

- Lunar charts and mosaic series, U.S.A.F. 4167-68, 7319-33, 8865, 10224-226, 13263, 15886-887

**Lunar landings:**

- Langley research facility, operational features, 6875
- motion of vehicle during landing impact, procedure for computing, 18043
- research vehicle—
  - electronic flight control systems, operational experience, 1496
  - manned, on-off rate command attitude control system, flight-test evaluation, 9888
- vehicles, touchdown stability, dynamic model investigation, 18042

**Lunar missions, see Moon.**

**Lunar Orbiter, see Spacecraft.**

**Lunar orbits, see Orbits.**

**Lunar roving vehicles, auxiliary power systems, 16891**

**Lunar satellites, see Satellites.**

**Lunar science:**

- lunar science and exploration, 1967 summer study, 17952
- lunar surface studies, bibliography, 11432

**Lunar topography, see Topography.**

**Lunar trajectories, see Trajectories.**

**Lunch rooms, see Restaurants, lunch rooms, etc.**

**Lunches, see School lunches.**

- Lundquist, Dorothy M., bibliography of tree nut production and marketing research, 13233

**Lungs:**

- cancer, health information, 1575
- vascular and lymphatic absorption of radioactive albumin from lungs, 13269

- Luoma, Arvo A., static longitudinal aerodynamic characteristics of hammerhead-shaped Little Joe II-lunar model, 18013

**Lupherella, see Pelecypods.**

- Lupus erythematosus, systemic erythematosus, general information, 13097

- Luquillo Mountains, weather, 1958-62 records, 14130

- Luria, Saul M., color-name as function of stimulus intensity and duration, 14320

- Lush, Gerson H., Department of State news letter, 3199

- Luskin, Sheldon H., technology and manpower in telephone industry, 5036

- Lustig, Lawrence K., sediment transport in Cache Creek drainage basin in coast range west of Sacramento, Calif., 11181

- Lutheran Church of the Covenant, ship model, duty-free entry, 7648, 14886, 16358

- Lutton, Richard J., Project-Pre-Schooner, geologic and engineering properties investigations, 17394

**Luxembourg:**

- mineral industry, minerals yearbook chapter, 6656

- mutual defense assistance, agreement, 11871

- Lyapunov method, see Liapunov method.

- Lycenidae, see Butterflies.

- Lycees, see Litchi.

- Lyerly, Ray L., nuclear power plants, 7443

- Lyerly, Samuel B., handbook of psychiatric rating scales, 1573

- Lyles, Charles H., fishery statistics of United States, 14069

- Lymphadenopathy, cyatic, of rats due to Rous sarcoma virus, pathogenesis, USSR study, 6554

- Lymphatics, absorption of radioactive albumin from lungs, 13269

- Lynch, Theodore N., metabolic effects of prolonged bed rest, their modification by simulated altitude, 14777

- Lynch, Thomas J., data compression with error-control coding for space telemetry, 11558

- Lyon, Richard H., random noise and vibration in space vehicles, 17705

- Lyon, Robert L., chemosterilants to control bark beetles, 14108

- Lyons, A. J., Jr., Streptomyces griseus (Krainsky) Waksman and Henrici, taxonomic study of some strains, 54

**Lyophilization:**

- freeze-dry preservation of biological specimens, 6950

- freeze-drying costs, some questions and answers (speech), 12458

**Lysergic acid diethylamide:**

- Federal drug research and regulatory programs, LSD, organization and coordination, hearings, 2120

- LSD, the false illusion, 15273, 17791

- LSD use on college campuses, hearings, 2128

**Lysianassidae, see Amphipods.**

- Lysimeters, monolith, use in evaluation of agricultural hydrology, 5687

**Lysons, Hilton H.:**

- compatibility of balloon fabrics with ammonia, 4836

- single-span running skylines, 14102

- skyline tension and deflection handbook, 12584

- Lysy, I., methods for determination of trace organic materials in water, 6451

- Lytile Creek, San Seavine area, ground water studies proposed, progress report, 1125

- Lytton, Lee, E., evaluation of vertical-scale, fixed index instrument display panel for X-15 airplane, 9918

**M**

- M series, 17116

- MA SP series, 6626-27, 9751, 12787, 17907-908

- Maag, William L., forced-convection heat-transfer correlations for gases flowing through wire matrices at surface temperatures to 5500° K, 9913

- Maabs, Howard G., chemical impurity data on selected artificial graphites, etc., 18040

- Mabey, D. R., geologic interpretation of gravity and aeromagnetic maps of Tintle Valley and adjacent areas, Tooele and Junb Counties, Utah, 8164

- MAC, see Military Airlift Command.

- Macaca irus, *see* Monkeys.  
 Macaca mulatta, *see* Monkeys.  
 MacAdams, Francis H., nomination, hearing, 10823  
 MacAllister, John J., organizing food training program, 17722  
 MacAloney, Harvey J.:  
     hemlock borer, 10647  
     impact of insects in northern hardwoods type, 2304  
     white-pine weevil, 17794  
 MacAlpine Locks and Dam, Ohio River, navigation conditions, hydraulic model investigation, 6210  
 MacArthur, Douglas:  
     Japanese operations in southwest Pacific area, 11992  
     reports, 11992  
 MacArthur, Jean B.:  
     management aids for small manufacturers, 2854  
     small marketers aids, 2858  
 McArthur, J. Wayne, economic potentials for baling wood shavings and sacking sawdust, 10920  
 McArthur (coastal survey ship):  
     ocean environmental research and survey vessel, description, etc., 10970  
 McBarron, H. Charles, uniforms of United States Navy, 1776-1898, posters, 7008  
 McBride, Bonnie J., Fortran IV program for calculation of thermodynamic data, 15566  
 McCafferty, James A.:  
     Federal offenders in U.S. district courts, 8799  
     persons under supervision of Federal probation system, 15821  
 McCahill, William P.:  
     remarks—  
         May 22, 1967, 11702  
         June 15, 1967, 13068  
         Sept. 26, 1967, 18143  
         Oct. 10, 1967, 18142  
         Oct. 14, 1967, 18140  
 McCalmont, J. R.:  
     farm silos, 5656  
     rope on farm, 4103  
 McCarren, E. F., chemical quality of surface water in Allegheny River basin, 8180  
 McCarron, Helen C., dollars for medical research, 1947-66, sources and performers, 10062  
 McCarthy, Jack:  
     labor racketeering activities—  
         hearings, 2119  
         report, 10731  
 McCartney, James T., optical properties of coals and graphite, 16849  
 McCarty, John L., dynamic response to impact loadings of acceleration sensors having various mounting characteristics, 11521  
 McClure, H. David, Yoruba intermediate texts, 8751  
 McCulloch, Lacy P., Botrytis rot of bell peppers, 34  
 McCollom, J. C., NASA's mammoth transportation problems, 9932  
 McConnell, John P., testimony, hearing, 16394  
 McCorkle, J. S., grass, ranchers crop, 5636  
 McCoy, Caldwell, Jr., system for measuring, 1st and 2d order probability distributions of signals and noise, 17085  
 McCracken, David S.:  
     foreign trade regulations of—  
         Colombia, 16100  
         Ecuador, 16101  
 McCulloh, Thane H., mass properties of sedimentary rocks and gravimetric effects of petroleum and natural-gas reservoirs, 12608  
 McDanel, David L., stress-rupture and creep properties of tungsten-fiber-reinforced copper composites, 17002  
 McDonald, Francis R., infrared vibrations of benzene rings in condensed thiophenes, 8377  
 MacDonald, Gilmour C., relief, 13625  
 McDonald, Keith L., earth's magnetic field, 1835-1965, analysis, 16533  
 McDonald, Philip M.:  
     brushfield reclamation, reforestation with ponderosa pine, 4844  
     California black oak, general bibliography, 14105  
     seed fall and regeneration from group selection cul, 4840  
 McDonald, Robert T., respiration-rate transducers for aircraft environments, 18044  
 Macdonald-Wright, Stanton, *see* Wright, Stanton Macdonald-  
 McDonnell, J. D., critical tracking task for man-machine research related to operator's delay time, etc., 5174  
 McDougal, Robert B., mineral industry of Oklahoma, 6664  
 McKlman, John A., eccentrically stiffened shallow, shells of double curvature, 6873  
 McElroy, Dennis L., nomination, hearing, 10863  
 McElroy, Robert C., hired farm working force of 1966, statistical report, 16487  
 McFadden, Ernest B.:  
     floatation characteristics of aircraft passenger seat cushions, 137  
     performance characteristics of oxygen mask designs for general aviation, 17412  
     physiological protective efficiency of—  
         civil aviation oxygen equipment, 15979  
         new prototype disposable passenger oxygen mask, 4248  
         protective passenger smoke hood, 14812  
     Sierra, hangling, quick-don crew, pressure-breathing oxygen mask, 4249  
 McFadden, Max W., soldier fly larvae in America north of Mexico, 6957  
 McGavin, Joseph J., relief, 291, 787  
 McGee, Charles E.:  
     diameter distributions in natural yellow-poplar stands, 9544  
     regeneration in southern Appalachian oak stands, 12578  
 McGhee, Robert J., jet pluming effects on static stability of ballistic bodies at Mach number of 6.00, 2691  
 McGill, Ralph E., South and the southerner, 5045  
 McGinnis, Edgar L., mineral industry of Ireland, 12802  
 McGrath, John J., relief, 13621, 17497  
 McGrath, Thomas C., Jr., nomination, hearing, 6092  
 McGrew, Jay L., cryogenic liquid experiments in orbit, 5164  
 McGuire, Marie C., address, Oct. 20, 1967, 17843  
 Mach numbers:  
     effect on sonic booms, 18041  
     pseudo, concept in 2-phase flows, 2712  
 Machado, Miguel A. Rojas, *see* Rojas-Machado, Miguel A.  
 Machado Espinosa, Mario V., relief, 559  
 Machine accountants, *see* Accountants.  
 Machine guns, national firearms act, code of Federal regulations, 11225  
 Machine records codes:  
     coding, Atlantida, case study in household sample surveys, 4360  
     numerical coding, application of automatic data processing to study of seabirds, 14536  
 Machine shops:  
     Army aviation maintenance engineering manual, shop practices, 7400  
     machine repairs formulas, engineered performance standards, 17067  
 Machine tools:  
     financing, 15730  
     industry, problems, etc., hearings, 2061  
     manufacturers and distributors, problems, report, 4514

Machine translations, *see* Translating machines.

**Machinery:**

- assembly machines, industrial plant equipment handbook, 7850
- chemical, USSR industrial development, translations, 4016
- construction, material and strength properties of components, results of ultrasonic testing in practice, 13339
- East European industries, translations, 3956
- horizontal machine for testing structural wood elements in tension, 8062
- inspection for ships of Navy, military standard, 2154
- machine for application of dust to cut seed potatoes, 7241
- machine repairs formulas, engineered performance standards, 17067
- machine to predict box-office success of motion picture, USSR study, 11288
- machines for centralized control, USSR book, 4937
- manufacturing, chemical and pharmaceutical products, industrial plant equipment handbook, 7851
- one-count memory circuit prevents machine mode interaction, 6697
- power, USSR industrial development, translations, 4018
- repairman 1 & C. supplement, 11658
- repairman 3 & 2. supplement, 11658
- rubber and plastics working machinery, industrial plant equipment handbook, 7849
- safeguarding, occupational safety and health, Shanghai Municipal Bureau of Machine and Electrical Industries, product standards, Communist China, 12759
- size reduction machinery, industrial plant equipment handbook, 4675
- special industry, Federal item identification guides for supply cataloging, supplements, 3292
- vibration, reduced by post-stressed concrete foundation, 15489

*see also* names or types of machinery.

**Machines, *see* Machinery.**

**Machining:**

- electrical discharge equipment, use of traveling wire electrode to increase productivity, 15490
- internal, accomplished at constant radial, 5214
- selected, sand metal fabricating technology, compilation, 11429

**Machinists, *see* Aviation machinists.**

McIntire, Wayne, L., spur gear design technology, 5747

McIntire-Stennis act, *see* Forests and forestry.

McIntyre, G. T., mineral industry of Kansas, 6653

MacIver, Bruce N., formation and initial stability of slopes on cohesionless materials, 17398

McIver, Robert G., treatment of altitude dysbarism with oxygen under high pressure, 7367

Mackay, James A., contested election, report, 12271

McKean County, Pa., Sartwell oilfield, predicted oil recovery by waterflood and gas drive, 11373

McKee, Edwin D., paleotectonic investigations of Permian system in United States, 16691

McKee, W. M., safety review, 3844

McKelvey, V. E., phosphate deposits, 16687

McKenna, Muriel, spinal cord injury, selected bibliography, 5585

MacKenthun, Kenneth M., algal growth, aqueous factors other than nitrogen and phosphorus, selected biological references, 6338

McKenzie, Jesa M., physiological responses of pilots to severe weather flying, 5804

Mackenzie, Vernon G., address, Jan. 19, 1967, 8636

McKinney, John R., relief, 772

McKinney, Linwood W., summary of NASA data relative to external-store separation characteristics, 2686

McKisson, R. L., solubility studies of ultra pure transition elements in ultra pure alkali metals, 1424

Macklet, Cleon A., low-temperature specific heat of palladium containing interstitial hydrogen, 1548

McKay-Helgeson Co., relief, 802

McLamore, V. R., seismic velocity determination and distance measurements in salt dome, 1808

McLaughlin, Milton D., maneuver speed increases of SST configuration in relation to speed margins, 16972

McLemore, B. F., loblolly seed dormancy influenced by cone and seed handling procedures and parent tree, 8092

McLoughlin House National Historic Site, general information, 1534

McLouski, R. M., diffusion of impurities into silicon from gaseous sources, 1421

McMahon, Michael C., non-rotating vorticity meter, 16910

McMinn, James W., comparative fire resistance of 2 seed sources of south Florida slash pine, 9540

McMillan, Ray F., relief, 16186

McMullin, Leslie D.:

- fishery associations in United States, list, 14057
- fishery cooperatives in United States, list, 14058

McNab, W. Henry, prescribed burning improves Piedmont loblolly pine seedbeds, 12582

McNamara, Patrick V., memorial services, 5668

McNamara, Patrick V., Federal Office Building, *see* Patrick V. McNamara Federal Office Building.

McNamara, Robert S.:

- statement, defense program, 1968-72 and 1968 budget, 4527
- testimony, hearing, 16394

McNamara-O'Hara service contract act, *see* Government contracts.

McNary Dam, fish passage report, 13974

McNary National Wildlife Refuge, birds, list, 11081

McNaughton, John T., nomination, hearing, 15148

MacNeal, Richard H.:

- flutter of flexible, towed tension shells, 9818
- flutter of towed rigid decelerators, 9814
- meteoroid damage to filamentary structures, 16899

McNee, Richard C., analysis of repeated measurements on experimental units in 2-way classification, 7348

MacNeill, F. Stearns, cenozoic peatlands of Alaska, Iceland and other northern regions, 11180

McNeill, Robert L., address, Nov. 8, 1966, 226

McNeill, Walter E., simulator and flight study of yaw coupling in turning maneuvers of large transport aircraft, 11494

McNitt, Harold A.:

- basic data on economy of Finland, 1946
- foreign trade regulations of Finland, 17481
- selling in Sweden, 4445

Macpherson, Thomas C., Jr., relief, 313, 789

McQuade, Lawrence C.:

- addresses, etc.—
- June 23, 1966, 224
- Oct. 17, 1966, 237
- Nov. 9, 1966, 228
- Dec. 1, 1966, 1965
- Dec. 28, 1966, 4425

- McQuade, Lawrence—Continued  
addresses, etc.—continued  
Jan. 21, 1967, 4427  
Mar. 16, 1967, 7571  
Apr. 1, 1967, 9025  
Apr. 20, 1967, 9012  
May 16, 1967, 10452  
July 13, 1967, 12127  
July 31, 1967, 13468  
Oct. 20, 1967, 17473  
Nov. 1, 1967, 17483  
nomination, hearing, 13855
- McQuilkin, William E., tree planting in scrub oak areas, 8112
- McRae, Ernest D., Jr., West German research vessel, Walther Herwig, 17772
- Macro-economic production functions as applied to economy of USSR, 2469
- Macroeconomic productive function as model of economic growth, USSR study, 9630
- Macromolecules, *see* Molecules.
- Macrophreata, monograph of existing crinoids, 14528
- Macy, John W., Jr.:  
address, July 25, 1966, 1932  
Federal employment of the mentally retarded, 1560
- Madagascar:  
cyclopoid copepods associated with—  
alcyonarian coral *Tubipora musica* (Linnaeus), 6959  
corals *Psammocora contigua* (Esper), 6965  
labor conditions, 2511  
mineral industry of Malagasy Republic, minerals yearbook chapter, 6657
- Madagascar and Africa, Agency for Safety of Air Navigation in, *see* Safety of Air Navigation in Africa and Madagascar Agency.
- Madariaga, Adela A. Rubio, *see* Rubio Madariaga, Adela A.
- Maddagiri, Heather G., relief, 349
- Maddagiri, Helena G., relief, 349
- Madden, Howard L., comparison of airman qualifying examination with differential aptitude tests, errata, 4171
- Madden, J. Patrick, economies of size in farming, 6172
- Madden, Richard, ballistic limit of double-walled meteoroid bumper systems, 9893
- Madera, Calif., data for wells in area, San Joaquin Valley, 12605
- Madison County, Ind., soil survey report, 8700
- Madow, William G., interview data on chronic conditions compared with information derived from medical records, 11762
- Maeglin, R. R., predicting specific gravity of plantation-grown red pine, 8061
- Maestlin, AIC 57 D. lunar chart, 7324
- Magazines, *see* Periodicals.
- Magee, Chris, new era, 3620
- Magellanic Clouds:  
large, historical survey, identification, etc., 8681  
small, variable stars, 2859
- Magie, primitive, in Judaism and Islam, USSR views, 2452
- Magistrates, *see* Judges—United States magistrates.
- Magnesium:  
alloys—  
determination of silver and iodine in, 9985  
protective coatings, coordination chemistry of magnesium ion, 10013  
carbothermic production methods, economic and technical evaluation, 11376  
cerium alloys, intermediate phases between magnesium and  $Mg_2Ce$ , 1414  
concentration related to parotid fluid flow rate, 10239
- Magnesium—Continued  
current concepts of its role in human body and disturbances of its metabolism, USSR study, 2446  
identification marking, Federal standard, 8008  
lithium alloys, properties and current applications, 8441  
magnesium-lithium alloys—  
coating protects against corrosion, 11477  
developed for low temperature use, 17976  
mill products, current industrial reports, 3169  
natural phases of system  $MgO-SiO_2-H_2O$  and systems containing congeners of magnesium (series), 8160  
primary, quarterly report, 3769  
products, preparation for shipment and storage, military standards, 16466  
use of steel and tantalum apparatus for molten Cd-Mg-Zn alloys, 8397
- Magnesium oxide, natural phases of system  $MgO-SiO_2-H_2O$  and systems containing congeners of magnesium (series), 8160
- Magnetic domain, *see* Domain structure.
- Magnetic fields:  
axisymmetric diverging, 3-dimensional plasma acceleration, etc., 5256  
biomagnetism, considerations relevant to manned space flight, 16911
- earth—  
components calculated, NELIAC-N computer program, 17083  
1835-1965, analysis, 16533  
influence on—  
backscattered signal, computations, USSR study, 6575  
diurnal variation of  $f_oF_2$  (Fourier analysis), 8512  
effect on central nervous system, 14504  
electron gas in magnetic field, 11569  
interplanetary, and solar winds, USSR study, 16749  
magnetically induced nonequilibrium electron temperatures, 9995  
measurements in neighborhood of moon by artificial satellite Luna-10, 1285  
oblique ambient, time-dependent structure of one-dimensional magnetic compression waves in collisionless plasmas, 11508  
solenoid, calculated from superposed semi-infinite solenoids, 1469  
superconducting torus, potential and magnetic moment, 9986  
ultrasonic attenuation for free electrons in presence of, theoretical investigation, 2705  
use to produce ionic concentration gradients, 9589
- Magnetic materials:  
cobalt-iron alloys with superior high temperature properties, 5209  
transportation, Federal aviation regulations, 10998-999
- Magnetic moments, superconducting torus in nonaxial uniform magnetic field, 9986
- Magnetic Observatory, Automatic Standard, *see* Automatic Standard Magnetic Observatory.
- Magnetic recording, high-frequency, USSR study, 6504
- Magnetic resonance, electron, and magnetic susceptibility of Cu (II) compounds with dicarboxylic acids, USSR study, 14252  
*see also* Nuclear magnetic resonance.
- Magnetic separators, use for reexamination of nonmagnetic taconite occurrences, 14346
- Magnetic storms:  
equatorial Dst (storm time variation), provisional hourly values, 14459  
principles of predicting, USSR manual, 14237

- Magnetic surveys, Canyonlands National Park, 2368
- Magnetic waves:
- compression, time-dependent structure in collisionless plasmas embedded in oblique ambient magnetic field, 11508
  - plasma accelerator, variable-length constant-velocity, experimental investigation, 18034
- Magnetism:
- neutron diffractometer allows both magnetic and crystallographic analyses, 12835
  - paramagnetism, finite lattice heat capacity effects on spin-lattice relaxation, 14516
  - residual, holds solenoid armature in desired position, 8464
  - susceptibility of nickel- and cobalt-bearing minerals, 17911
  - see also Electromagnetism—also headings beginning Magnetite.
- Magnetite, alluvial, minor elements from Inner Piedmont belt, N.C. and S.C., 8172
- Magnetization:
- cobalt-iron alloy, magnetically soft, high-temperature, investigation, 1500
  - internal, of seamounts, and its computer calculation, 12612
- Magnetograms, MHV series, 7552
- Magnetohydraulics, see Hydraulics.
- Magnetohydrodynamic generators:
- installed in Soviet experimental power plant, 15428
  - magnetically induced nonequilibrium, electron temperatures, 9995
- Magnetohydrodynamics:
- ship propulsion, USSR study, 14256
  - stationary equilibria, variational principle, 12008
  - turbulent magnetohydrodynamic flows in prismatic and cylindrical pipes, 11571
  - vortex flows, confined near flat plate, analysis, 2006
- Magnetometers:
- condition of maximum sensitivity of magnetometer based on optical orientation of atoms, USSR study, 16772
  - maximum response based on optical orientation of atoms, USSR study, 17870
  - nonmagnetic, explosive actuated indexing device, 11496
- Magneto-optics, modulators, properties, 11487
- Magnetoplasma:
- Langmuir probe analysis of electron temperature variations in exhaust of magnetoplasma dynamic arc, 18047
  - nonlinearities in collisionless waves, magnitude, 5253
- Magnetoresistor monitors relay performance, 6810
- Magnetosphere, lunar intersection with tail of earth's magnetosphere, indications, USSR study, 1284
- Magnetostatics, echo mode variation in study of yttrium iron garnet rods, 12889
- Magnetrons, ion gauge, hot-cathode, 5185
- Magnets:
- classification bulletin, 2785
  - superconducting, effect of mechanical vibrations on performance, 11511
- Magpies, magpie reduction in an urban roost, 16635
- Mahé Island, see Seychelles.
- Mahogany:
- nursery stock, root pruning, 12572
  - seedlings, height growth, St. Croix, V.I., 12575
  - trees, West Indies, killing unwanted by peeling and frilling, 12573
- Mail carriers, rural, compensation, potential savings through changes in legislation effecting, GAO report, 4874
- Mail contracts, see Postal services.
- Mail matter:
- addressing for optical character reader, 17111
  - automated address coding guide and data retrieval series, 16028
  - carrying and handling, cost ascertainment report, 8613
  - Census Bureau address coding guide and register, general applications, 16028
  - false or misleading, amend U.S. Code—hearings, 747, 9167, 16430
  - reports, 10580, 16279
  - fraud—
  - and mailability, enforcement action, monthly releases, 3360
  - how postal inspection service protects you, 17119
  - military assistance program addresses, MILSTRIP, 4679, 6152, 9379, 10900, 12445, 13926, 16472
  - pandering advertisement—
  - not desired by addressees, prescribe mailing, amend U.S. Code, hearings, 10671, 17608
  - regulate, hearings, 17672
  - return of obscene mail, amend U.S. Code, hearings, 10671, 17608
  - shipping charges, rates to be fixed by Postmaster General, hearings, 9166
  - transportation of mail by vessels, rates of compensation—
  - law, 17554
  - reports, 10581, 16376
  - unsolicited sample drug products, etc., prohibit mailing, hearing, 10668
  - see also Franking privilege—International postal service—Letters.
- Mail routes, see Postal service.
- Mailing lists, suppliers and buyers, to furnish information to Postmaster General with respect to their identity and transactions involving sale or exchange, hearing, 10667
- Mails, see International postal service—Postal service.
- Maine:
- area measurement reports, 13358
  - census of agriculture, 1964, State and county statistics, 7499
  - census of manufactures, 1963, area statistics, 1841
  - census of mineral industries, 1963, area statistics, 7463
  - county business patterns, 10348
  - electric rate book, 11021
  - forest fires, who starts them and how? 8076
  - landings, fish and shellfish, 3533
  - annual summary, 12541
  - postal map, 5391
- Maine, University of, see University of Maine.
- Mainland, Donald, notes on biometry in medical research, 17284
- Mainland China in world economy, 10493
- Maintenance:
- aerospace maintenance safety, 2992
  - aircraft
  - Army Dept. management of repair parts reserved at depots in U.S., GAO review, 9555
  - Army, quality control and technical inspection, guide, 8893
  - aircraft tools, Army technical manual, 4218
  - air-ground communication facilities, FAA handbook, 10980
  - air navigation and traffic control facility outage and equipment failure report, FAA handbook, 10983
  - Army aviation engineering manual, 4218, 7400, 8892, 10282.
  - Army model CH-34 helicopters, technical manual, 7401
  - aviation administrationman 1 & C, Navy training course, 7011

**Maintenance—Continued**

beacons, non-directional, FAA handbook, 6236  
bulletins, FAA handbook, 10982  
certification procedures, FAA handbook, 10981  
closed circuit TV course, class C, curriculum, 7015  
diesel-electric locomotives, Army technical manual, 1772  
Douglas DC-6/7 series aircraft, inspection notes, 17747  
electric power generating plants, Air Force manual, 8855  
electronics, Coast Guard manual, amendments, 4416, 10441  
employment classifications and wage rates, region 6 housing authorities, HUD, GAO review, 2349  
equipment, facilities in shore establishment, Navy design manual, 14566  
general practices and procedures of Maintenance Division, Flight Standards Service, FAA handbook, 16560  
industrial plant equipment, quality assurance program, 13912  
internal combustion engines, 13017  
irrigation operation and maintenance bulletin, 3448  
Job Corps men's and women's centers, facilities maintenance and utilities operations handbook, 7876  
maintenance and service workers in Washington, D.C., metropolitan area, examination announcements, 4403, 10428  
amendments, 5925, 7532  
management data, field command procedures, 11995  
management, depot, field, and organizational, Air Force manual, change, 14767  
management in Defense Dept., 17858  
preventive—  
occupational safety aid, 9720  
safety in industry, instructor outline, 8293  
railway cars, Army technical manual, 8891  
shop practices, Army technical manual, 7400  
training on TT-299/UG teletype equipment, trainee's guide, 1547  
**Maintenance shops:**  
equipment, Federal item identification guides for supply cataloging, supplements, 3287  
specialized equipment, industrial plant equipment handbook, 7852  
**Maintenance technicians, examination announcement, 7537**  
**Maio, Domenic A., effect of chemically inert gases on oxygen consumption in living tissues, 5708**  
**Maisel, Sherman J.: remarks—**  
Nov. 10, 1966, 1060  
Nov. 16, 1966, 1064  
Feb. 1, 1967, 4781  
Apr. 14, 1967, 7996  
May 9, 1967, 9496  
**Makatea Island, see French Polynesia.**  
**Make waistline fit on pants, 7282**  
**Making and preserving apple cider, 13222**  
**Making Europe whole, unfinished task, 1626**  
**Making household fabrics flame resistant, 10177**  
**Making pants longer or shorter, 7289**  
**Malacca Strait, sailing directions, 14576**  
**Malagasy Republic, see Madagascar.**  
**Malaria, description, etc., health information series, 17146**  
**Malathion:**  
evaluation, as protectant against insects in sorghum grain, in small bins, 11933  
shelled corn protectant against insects in small bins, 36

**Malathion—Continued**

use of malathion-treated drying trays to protect raisins from insects during drying and storage, 15859  
**Malawi:**  
labor conditions, 1379  
mineral industry, minerals yearbook chapter, 12806  
treacles, continued application, agreement, 18233  
**Malaya, see Malaysia.**  
**Malaysia:**  
background notes, 10093  
capsule facts for Armed Forces, 10250  
economy, basic data, 1945  
foreign trade regulations, 13459  
Malaya, flies captured in tree tops, 5313  
minerals industry, minerals yearbook chapter, 6658  
**Malcolm, F. B.:**  
coarse, feed sawing of red oak, limited study, 11111  
knee position recorder for sawmill carriage headblocks, 2297  
**Malcolm, Gerald N., stability characteristics at Mach numbers of 10 and 26 of proposed slender atmospheric probe, 9894**  
**Maldives Islands:**  
Euphilomedes astrostrata, new myodocopid ostracod, 6954  
sailing direction, 17073  
**Malechek, John C., cattle diets on native and seeded ranges in ponderosa pine zone of Colorado, 6369**  
**Maleic anhydride, see Anhydrides.**  
**Males, see Men.**  
**Maletskos, Constantine, J., intercomparison of reliability of body 137c. measurements on human beings, 17400**  
**Mail:**  
C-47 aircraft, agreement, 11873  
labor conditions, 1380  
**Mallards, lead poisoning, test of types in alleviating, 17786**  
**Mallison, Earl D., use of ozone in tomato ripening rooms, 5**  
**Malliphaga, see Lice.**  
**Malmberg, Glenn T., hydrology of valley-fill and carbonate-rock reservoirs, Pahremp Valley, Nev.-Calif., 14178**  
**Malnutrition:**  
and hunger in America, hearings, 16423  
young cattle, effect on feed utilization, meat quality, etc., 14765  
**Malone, John L., private enterprise and United Nations development program, how to bid on special fund projects, 4262**  
**Malone, Kevin, mineral industry of Alaska, 5108**  
**Maloney, Raymond P., investigations of White Mountain mercury deposit, Kuskokwim River basin, Alaska, 6677**  
**Maloy, Charles R., rearing marketable channel catfish in ponds, 6356**  
**Malta:**  
background notes, 13136  
capsule facts for Armed Forces, 15907  
cotton textiles trade, agreement, 15785  
deployment of USS Cascade to, agreement, 8745  
deployment of USS Shenandoah to, agreement, 2904  
investment guaranties, agreement, 8748  
maritime matters, deployment of USS Yellowstone, agreement, 15800  
**Malvin, Harry H., methionine-pyridoxine and atherosclerosis, 77**  
**Mammals:**  
amicrobic, raising, USSR study, 6483  
Aransas National Wildlife Refuge, list, 11087  
Bear River Migratory Bird Refuge, list, 6354  
Cabeza Prieta Game Range, list, 11089  
Chicotetagne National Wildlife Refuge, list, 2277



**Mammals—Continued**

- fossil marine from Miocene Calvert Formation of Maryland and Virginia, 1530
- Kofa Game Range, list, 11088
- Sacramento Valley national wildlife refuges, list, 8030
- Mammoth Cave, cavernous limestones of area, hydrology, 1132
- Mammoth quadrangle, Ariz., geology, 11163
- Mau:
  - and wildlife, animal damage control policy for Sport Fisheries and Wildlife Bureau, 11078
  - atrial systole effect on right ventricular stroke output, 11956
  - behavioral model, 1967, his chains revealed, 14401
  - contaminants produced in space cabin simulator, 11955
  - control of movements, USSR study, 12690
  - convulsive state, USSR electron microscopic study of cerebral cortex, 12752
  - electronicarcs and electrosleep, USSR book excerpts, 15396
  - emotional state under conditions of space flight, analysis of intonational characteristics as criterion, 6507
  - human ecology in south costal Guatemala, 9954
  - integrated mobility measurement and notation system, 11451
  - late somatic effects of radiation, 10308
  - man in loop, space vehicle flight control systems, analysis and design, 12875
  - man-machine research, critical tracking task related to operator's delay time, 5174
  - man's adaptation to high altitude of lower Caucasus, USSR study, 14276
  - oxygen-hellum atmosphere—
    - behavior factors, 86
    - clinical observations, 90
    - enteric microbial flora, 79
    - exercise and cardiovascular response, 88
    - heat exchange, 81
    - introduction and general experimental design, 91
    - major and minor atmospheric components, 89
    - nutritional evaluation, etc., of feeding bite-size foods, 82-83
    - oral, cutaneous and aerosol bacteriology evaluation, 84
    - renal response, 87
    - selected blood enzyme response, 85
  - parotid flow rate, effect of mental exercise, 11963
  - physical endurance and its development, USSR study, 12698
  - physical exertion, effect on human organism, USSR study, 12689
  - physiological functions in normal persons, effects of change in nutrition pattern, complex investigations, USSR study, 11281
  - space psychophysiology, effect of high and low afferentation on human organism, 1345
  - viroid etiology of human leukemias, recent research, Rumanian studies, 6549
  - weather and the hand of man, 13993
- Man-hours, *see* Labor.
- Man-machine system:
  - command information processing systems, human factors research, 119
  - man-machine problem, report on Soviet symposium, 16753
- see also* Human engineering.
- Management, *see* Administrative management—Industrial management—Planning.
- Management analysts, development program, career opportunity, 9586
- Management Department:
  - District of Columbia, establish—
    - hearings, 15022
    - report, 14949

- Management information reporting by community action agencies, 13939
- Management interns:
  - NASA headquarters program, 6729
  - Public Health Service program, 10065
  - Veterans Administration, 8781
- Management Services Office, Agriculture Dept., appropriations, 1968, hearings, 10629, 12397
- Managers:
  - fallout shelter, management handbook, 5916
  - senior level positions, examination announcement, 8988
- Manasquan, N.J., to Cape Hatteras, N.C. and Chesapeake Bay, coastal warning facilities chart, 14720
- Manchester, Alden C., dairy marketing, 4697
- Manchester, N. H., area wage surveys, 1362, 17895
- Mandan, N. Dak.:
  - culture history, interpretation—
    - departmental edition, 11973
    - document edition, 12193
- Mandible, *see* Jawa.
- Mandrels:
  - ductile mandrel and parting compound facilitate tube drawing, 5156
  - floating, technique used by thin-wall tungsten tubing, 1/2- and 3/8-inch diameter, 5250
  - hydraulic fluid serves as mandrel for small diameter refractory tube drawing, 5151
  - porous, provide uniform deformation in hydrostatic powder metallurgy, 12916
- Manele Bay:
  - small-boat harbor construction, additional funds—
    - hearing, 12427
    - report, 10732
- Manes, Debiz H. S. relief, 352, 825
- Maneuvering boards, programmed instruction course, 9078
- Maneuvers, *see* Flight.
- Manganese:
  - mineral industry survey, monthly, 3534
  - ores, duties, continue suspension—
    - law, 13530
    - reports, 9100, 13798
  - reactions with silicon, 6684
  - recovery from ores and slags as chloride, one-step operation, 11369
- Manganese dioxide:
  - battery grade synthetic, disposal from national stockpile—
    - law, 439
    - reports, 684, 921
- Manikins (space):
  - thermal, 1435
- Manila American Cemetery and Memorial, general information, 17366
- Manipulators:
  - polynomial, AP-168 program, 9858
  - welding torch and wire feed manipulator, 17993
- Manitoba Province, Canada, access highway through Manitoba to northwest angle of Minnesota, construct, agreement, report, 2096
- Manly, Mary L., market factors in India, 17477
- Manned orbiting laboratory, *see* Satellites.
- Manned spacecraft, *see* Spacecraft.
- Mannella, Gene G., aerospace measurement techniques, symposium, 6734
- Manners and customs:
  - armies and social progress, USSR study, 1327
  - classification, Library of Congress, 5086
  - Negro in the West, social and economic conditions, 15453
  - social usage abroad, guide for American officials and their families, 8712
- Manninen, Elisabeth, relief, 281, 841



# INDEX 1967

- Manning, Larry A., minimal energy ballistic trajectories for manned and unmanned missions to Mercury, 9886
- Manning, Raymond B.:  
demand section of genus *Gonodactylus* Berthold, etc., 14541  
notes on genus *Manningia*, etc., 6968  
review of genus *Odontodactylus*, etc., 14535
- Manning of vessels, *see* Ships.
- Manningia*, *see* Crustaceans.
- Manometers, micrometer U-tube for ranges up to 100 mm of mercury, drawings, 17040
- Manpower:  
American Science, 1964, report of National Register of Scientific and Technical Personnel, 5323  
America's industrial and occupational requirements, 1964-75, study, 6603
- Army—  
nomograms for policy evaluation, 4227  
rotation policy models, 7404
- automation research monographs, 16793
- development and training act of 1962—  
amendments of 1966, law, 496  
as amended, resources, utilization, etc., 1350
- earnings mobility of MDTA trainees, 11296
- employer's guide to on-the-job training, 13278
- good training, good jobs, Detroit Skills Center, 16500
- handbook chapter, training project development, 15221
- learn and train for job under MDTA, 13971
- MDTA and your health manpower needs, 15434
- MDTA trainees, attitudes and motives, pilot investigation, 5035
- redevelopment area residents program, overview, 10939
- review of training activities, 15433
- summary, 6594
- training activities, report of Secretary of Health, Education, and Welfare Dept., 9578
- training programs, impact on public assistance caseloads, 3406
- development, community action for employment, 2166
- DoD nationwide priority referral system, improved management, 2152
- educating for 21st century needs tomorrow is now, 17717
- health resources statistics, 10051
- health service industry, 1965-75, report, 11297
- implications of selective service, hearings, 10862
- improved management in Federal Government, report, 12209  
print as House document, report, 12280
- industry, surveys, 17729
- intergovernmental manpower act of 1967, hearings, 12409
- library, public and school librarians, occupational characteristics, 4713
- managing or motivating manpower? (address), 11295
- manpower and employment statistics, 15452
- manpower and training needs of States and local governments in water pollution control, report, print as Senate document, report, 16362
- manpower/automation research notice, 3535
- manpower research institutional grant program, progress report, 16795
- manpower, today's frontier (address), 10945
- mental health manpower—  
current statistical and activities report, 2829  
utilization, 2829
- Manpower—Continued  
national emergency standby regulations and instructions, Federal personnel, 3306
- national patterns of R&D resources funds in United States, 14562
- Navy, civilian manpower management (periodical), 8602
- our market is the world, our product the individual (address), 12473
- policy and current programs (address), 16515
- policy and program, seminar—  
automation in perspective of long-term technological change, 2487  
challenges in sustaining prosperity, 5041  
changing cultural patterns of work and leisure, 5042  
cybernation and social change, 6596  
how well is employment act of 1946 achieving its goal? 5043  
investment in poor people, 5044  
labor's role in war on poverty, 11299  
labor's view of manpower policy, 14279  
manpower potential in our ethnic groups, 17885  
perspectives on natural resources and human resources, 6597  
South and the southerner, 5045  
university perspectives on manpower, 15435  
womanpower policies, 17886  
working with automation, 11300
- potential in our ethnic groups, seminar proceedings, 17885
- projections—  
appraisal and plan of action, report of working group on manpower projections to President's Committee on Manpower, 16794  
selected references, 2485
- prospective manpower situation for science and engineering staff in universities and colleges, 14563
- publications, selected, 8285
- railway post offices costs savings available, GAO report, 6377
- report of the President, 1967, statistics—  
departmental edition, 9680  
document edition, 9078
- reports, 5035, 11296
- reprints, 8284
- requirements, resources, utilization, and training, Labor Department report—  
departmental edition, 9680  
document edition, 9078
- research bulletins, 5036, 6593, 11297
- research, guidelines, etc., for grants and contracts, 6591
- research projects, 1351, 17884
- scientific and technical, impact of Federal research and development policies report and recommendations, 4650
- scientific manpower utilization, hearings, 4652, 10869
- specialized personnel, career guidance, report of Subcommittee on Career Guidance of Committee on Specialized Personnel, Labor Dept., 11293
- statistics from current population survey, concepts and methods used, 12768
- telephone industry, 1965-75, report, 5036
- utilization—  
affirmative program, equal opportunity in Reclamation Bureau, 13104  
at military installations in Far East and Western Europe, report, 9133
- water pollution control, manpower needs, 17615
- Manpower Administration, manpower, publications, selected, 8285
- Manpower for America, 13971
- Manson, S. S.:  
application of double linear damage rule to cumulative fatigue, 9875

**Manson, S.S.—Continued**

low cycle fatigue of notched specimens by consideration of crack initiation and propagation, 12921

Manson, S. V., exploratory study of internally and externally finned radiators for Brayton cycles in space, 8405

Mantas, Panagiotis, *see* Paulus, Panagiotis

Manual arts therapists, Veterans Administration hospitals and clinics, nationwide, 14713

Manual de referencia sobre la ley de normas razonables de trabajo, según emmendada en 1966, 5590

Manuals, *see* names of departments, etc., issuing manuals—also subjects.

Manufacturers, *see* Manufactures and manufacturers.

Manufacturer's agents, sample display service, new way to find agents and distributors overseas, 4923, 14207

Manufactures and manufacturers:  
annual survey of manufactures, 1830, 4264, 7454-55, 8927, 17418-420

book value of fixed assets and rental payments for buildings and equipment, 17418

expenditures for new plant and new equipment, 7455

fuels and electric energy used, by major groups, and by divisions and States, 17419

industry groups and industries, general, statistics, 4264, 8927

States, standard metropolitan statistical areas and large industrial counties, statistics, East South Central division, 17420

value of manufacturers' inventories, 7454

Army Materiel Command manufacturing methods and technology, 5-year program, 15943

census, 1963—  
area statistics, 152-165, 1833-53, 4271

bound volume, 7462

final reports, announcement and order form, 12033

general summary, 4273

industry statistics, 4272, 8933

bound volume, 7461

manufacturers inventories, 4275

plant and equipment expenditures, 4276

preliminary reports, 3086

publication program, 5819

size of establishments, 4274

special reports, 13362, 14817

subject statistics, 4273-79

bound volume, 7460

summary and subject, industry and area statistics, announcement and order form, 12037

census publications, price list, 7056

commodity transportation survey—  
commodity groups, 7472

shipper groups, 1855

and production areas, 7473

computerized parts list system coordinates engineering releases, parts control, and manufacturing planning, 17929

concentration ratios in industry, 2126

supplement, 13362

earnings series, summaries, 5083, 12775

employment in manufacturing, by counties of U.S., 1960, map, 1890

enterprise statistics, 1963, preliminary reports, 3241

exports of manufactured products, survey of origin, current industrial reports, 17436

exports sales and orders, current industrial reports, 3169

Federal supply code for manufacturers—  
excluding United States and Canada, 2145

supplements, 3325

**Manufactures and manufacturers—Con.**

Federal supply code for

manufacturers—Continued

United States and Canada—

code to name, 2144, 16457

supplements, 3326

name to code, 976, 17688

supplements, 3327

financial report of corporations, quarterly, 3794

injury rates in manufacturing industries, 3422

machine tool manufacturers, problems, report, 4514

manufacturers part and drawing numbering systems, Defense Dept. handbook, 2146, 7847, 10886

manufacturers' shipments, inventories, and orders, current industrial reports, 3540

manufacturing capacity, etc., revised indexes, 4790, 14045

Minnesota and two Dakotas rank high in production and international sales (remarks), 4448

small manufacturers, management aids, annual compilation, 2854

type of organization, 1963 census of manufactures, 5820

wage developments, summary, 4041

water use in manufacturing, 1963 census of manufacturers, 4279

*see also* names of manufactured articles.

Manuscripts:

historic, concerning general agriculture in collection of National Agricultural Library, 8515

national union catalog, Library of Congress collections, 2531

Manville, Richard H., extinct sea mink, with taxonomic notes, 6964

Many-body problem, *see* N-body problems.

Mao-Tse-Tung, anti-economism campaign idealizes poverty, USSR historian claims, 6582

MAP (Macro assembly program), *see* Electronic computers.

MAP (military assistance program), *see* Military aid.

Map Information Assembly and Display System, MIADS2, alphanumeric system for large computer, 14142

Map reading, *see* Maps and charts.

Mapel, W. J., bituminous coal resources of Texas, 8158

Maple, William R., Appalachian loblolly grows well in Arkansas Ozarks, 2320

Maple:

diseases and their control, guide for homeowners, 8832

queensland maple seedlings in Hawaii, growth accelerated after first year, 8090

red, suppressed, annual growth, basis for hydrologic inference, 11171

sugar maple log and lumber values, effect of staining caused by sapstreak disease, 2306

Maple sirup:

production and industry, producers manual, errata, 28

reprocessing, U.S. standards for grades, 13898

table, U.S. standards for grades, 13899

Mapping tungsten-reactor rocket engine as guide to operation and control, 9876

Maps and charts:

aeromagnetic analysis of upper Mississippi Valley zinc-lead district, 4888

aeromagnetic maps of Tintic Valley and adjacent areas, 8164

aeromagnetic survey of Iron Springs district, Utah, geologic interpretation, 11173

Maps and charts—Continued

- alphanumeric map information assembly and display system for large computer, 14142
- cartographic records of—
  - American Expeditionary Forces, 1917–21, preliminary inventory, 14508
  - Forest Service, preliminary inventory, 14510
- cartography, USSR scientific research goals, 14257
- catalog of copyright entries, 12433
- Census Bureau, United States maps, GE-50 series, 1891
- census publications, price list, 7056
- Coast and Geodetic Survey—
  - aeronautical charts—
    - catalogs, 5939, 8998, 16084
    - dates of latest editions, 3191
  - flight information publications, dates of latest editions, 3192
  - instrument approach procedure charts, 3423
  - military fields, 3555
- nautical chart catalog—
  - Alaska and Aleutian Islands, 216
  - Atlantic and Gulf Coasts, Puerto Rico and Virgin Islands, 4415
  - Pacific Coast, Hawaii, Guam and Samoa Islands, 7558
- DoD aeronautical chart updating manual, 3212
- Eastern Europe, cartography, new developments, Hungarian study, 15358
- Federal item identification guides for supply cataloging, supplements, 3292
- geodesy and cartography (Hungarian periodical), translations, 17872
- geological mapping in sea regions, USSR study, 9640
- Geological Survey, released only in open files, 9563, 15307
- grids and grid references, Army technical manual, 15945
- Image Interpreter map displays, chip versus hard copy, 4224
- large scale maps for city, construction and technical planning, requirements, 4981
- legibility of military map symbols on television, 63
- lunar charts—
  - AIC 57C, Encke, 7323
  - AIC 57D, Maestlin, 7324
  - AIC 61C, Secchi, 7325
  - AIC 75A, Flamsteed, 7326
  - AIC 75B, Wichmann, 7327
  - AIC 76A, Enclides P, 7328
  - AIC 76B, Fra Mauro, 7329
  - AIC 77B, Hipparchus, 7330
  - AIC 78A, Delambre, 7331
  - AIC 78B, Torricelli, 7332
  - AIC 79B, Messier, 7333
  - LAC 11, J. Herschel, 10224
  - LAC 12, Plato, 10225
  - LAC 23, Rumker, 10226
  - LAC 24, Sinus Iridum, 7320
  - LAC 25, Cassini, 7321
  - LAC 26, Eudoxus, 13263
  - LAC 27, Geminos, 15886
  - LAC 62, Mare Undarum, 7319
  - LAC 96, Rupes Altai, 7322
  - LAC 113, Maurolycus, 8865
  - LAC 114, Rheita, 4167
- lunar reference mosaic, earthside hemisphere, 4168, 15887
- map reading, field manual, 5726
- Naval Oceanographic Office, chart correction lists, 5337, 14582
- price list, 17134
- topographic, how they are made, 1648
- topographic mapping, report, 4891
- TVA Maps and Surveys Branch, general information, 1649
- Weather Bureau, daily synoptic series, 3181

Maps and charts—Continued

- see also Aerial mapping—also names of localities—also subjects.
- Mar del Plata convention, text, 6065
- Marcello, Bernardino D., relief, 13515, 13609, 13763
- Marchant, Jack D., solid-state electromigration of impurities in cerium metal, 5129
- Marcus, Emanuel, relief, 13589
- Marcus, I., compositions, coating or plastic, classification definitions, 8605
- Mare Undarum, LAC 62, lunar chart, 7319
- Marek, Czeslawa, see Piotrowski, Maria A.
- Maremont Corporation, adjustment assistance case pertaining to certain workers, excerpts from Tariff Commission report to Automotive Agreement Assistance Board, 5565
- Margason, Richard J., static calibration of ejector unit for simulation of jet engines in small-scale wind-tunnel models, 6899
- Mariana Islands, Guam, geology and hydrology (series), 1119
- Mariano, Frank A., Army aviation digest, 3996
- Marihuana, use on college campuses, hearings, 2128
- Marine biology:
  - biological research laboratory, La Jolla, Calif., use of land donated by University of California hearing, 746
  - survey of fifty years of Soviet work, 14236
  - USSR, hydrobiology, basic goals in current 5-year plan defined, 6522
- Marine Corps:
  - aircraft 1913–65, utilization, 17905
  - antimechanized operations, Fleet Marine Force manual, 16841
  - command and staff action, manual, 2533
  - commandant, appointment, etc.—
    - law, 12164
    - report, 10611
  - enlisted members, computing retired pay, report, 16270
  - First World War, annotated bibliography, 14310
  - Fleet Marine Force manual FMFM series, 2533, 6624–25, 8331, 12781–782, 15460, 16839–841
  - Harper's Ferry and in Civil War, historical reference pamphlet, 12784
  - historical bibliographies series, 14310
  - historical reference pamphlets, 8332, 12784, 14311, 17994–906
  - history of operations in World War II, central Pacific drive, 12783
  - Iwa Jima, battle and flag raising, 14311
  - logistics and personnel support, manual, 6624
  - management review (periodical), 3614
  - Marine Band, history, activities, etc., 9750
  - materials, transfer of excess to Army, expedited procedure, GAO review, 14163
  - 9th Marines, brief history, 17904
  - occupational opportunities, 16842
  - officers—
    - general, authorize increase—
      - bearing, 940
      - law, 444
      - report, 926
    - professional reading guide, 17079
  - register—
    - departmental edition, 11662
    - document edition, 10501
    - retired, register, 1546
  - outlook for your future as marine, career information, 15461
  - ribbons of decorations and awards (poster), 11663
  - serving America as woman marine, 11341
  - small unit action in Vietnam, summer 1966, 8332
  - terminal facilities guide, Defense Supply Agency handbook, 17690
  - uniforms, regulations, 8333
  - U.S., in southeast Asia, report, 10815

**Marine Corps—Continued**  
 United States Marine Corps, 1966, 191st year of faithful service, 14312  
 Washington, D.C., general information, 11342  
**Marine Corps Reserve:**  
 history, 1394  
 mobilization in Korean conflict, 17906  
 officers—  
     general, active status, increase number, report, 14944  
     retired, register, 1546  
     reserve marine (periodical), 3828  
 Marine engineering, operation and maintenance, Navy officers' text, 7016  
*see also* Naval engineering.  
 Marine geology, *see* Submarine geology.  
 Marine inspection, *see* Ships.  
 Marine investigation regulations and suspension and revocation proceedings, 10443  
 Marine museums in United States, 16843  
 Marine Resources and Engineering Development, National Council on, *see* National Council on Marine Resources and Engineering Development.  
 Marine safety and seamen's welfare act of 1967, draft bill, supplement, 16404  
 Marine science, *see* Oceanography.  
 Mariner, *see* Spacecraft.  
 Mariners, *see* Notice to mariners.  
 Mariners weather log (periodical), 3541  
 Marines, *see* Marine Corps.  
 Marquette County, Wis., Menominee iron-bearing district, geology, 6398  
 Marino, Vicente Fernandez, *see* Fernandez Marino, Vicente.  
**Maritime Administration:**  
     appropriations, require authorization—  
         hearings, 4532, 7753  
         law, 16137  
         reports, 696, 9108, 9124  
     current regulations, index, 11343  
     financing operations of Government-owned vessels supporting military activities in southeast Asia, potential savings, GAO report, 14157  
     introducing programs and activities, 5090  
     performance and payment bonds on ship construction contracts, policy, etc., GAO review, 2350  
     press releases, 3743  
     report, 1966—  
         departmental edition, 8334  
         document edition, 7596  
     SP series, 6626-27, 9751, 12787, 17907-908  
**Maritime Board:**  
     establish—  
         hearings, 16335  
         reports, 15,009, 16278  
**Maritime Consultative Organization, Inter-governmental, see** Intergovernmental Maritime Consultative Organization.  
**Maritime Industry, see** Merchant Marine—Shipping.  
 Maritime navigation, *see* Navigation.  
 Maritime safety digest (periodical), 3542  
 Maritime safety specialists, examination announcement, 14867  
 Maritime services, *see* Shipping.  
 Maritime Subsidy Board, current regulations, index, 11343  
 Maritime traffic, *see* Ships.  
 Mark, Harold M., fallout characteristics from deeply buried nuclear detonation, 7426  
 Mark Twain National Wildlife Refuge, birds, list, 11083  
 Markers, side marker devices for automotive vehicles, Federal standard, 6331  
 Marketing, *see* Markets and marketing.  
 Marketing Conference, National, *see* National Marketing Conference.  
 Marketing Research Advisory Committee, Agriculture Dept., required meetings to be held, reduce, report, 16361

**Markets and marketing:**  
     acquire marketing guides, 962, 2134, 4661, 6127, 7828, 10872, 16441  
     Africa, market profiles, 14880  
     agreements and orders, statutes, compilation, 7262  
     agricultural marketing (periodical), 2997  
     agricultural marketing act of 1946—  
         amend, report, 16361  
         and regulations thereunder, 9332  
     agricultural marketing agreement act, amend, hearing, 13693  
     building U.S. sales in expanding world market (address), 4920  
     business benefits from fair play in market place (remarks), 7582  
     Chile, market for U.S. products, 2417  
     Commerce Department—  
         objectives for marketing and distribution (address), 245  
         services to and for business (address), 1825  
     creating new market places for private enterprise in cities, education and training, etc. (address), 10450  
     crops, quotas and allotments, statutes, compilation, 7262  
     dairy marketing economics, research publications, bibliography, 13950  
     economics research publications, 13944  
     effects on economic and social conditions (remarks), 242, 1960  
     Federal-State market news service, California rice stocks and movement report, 3074  
     foreign commercial markets (talk), 4818  
     foreign crops and markets (periodical), 3344  
     foreign market reports service, listing, 12653  
     Government-business relations component in your marketing mix (address), 10329  
     machine tool distributors, problems, report, 4514  
     market factors in—  
         India, 17477  
         Spain, 13459  
     market for U.S. products in Taiwan, 17853  
     market indicators for Asia and Oceania, 9013  
     market profiles—  
         Latin American area, 13455  
         Western Europe and Canada, 13462  
     marketing and management practices, retail florist industry, graphic view, 13228  
     marketing and public interest, selected issues and viewpoints (address), 226  
     marketing and transportation, 3543  
     marketing bulletin, 15858  
     marketing information guide, annotated bibliography, 3544  
     marketing research reports, 34-37, 1702-4, 4120-22, 5444-53, 7276-78, 8834-36, 10179-181, 11933-935, 13228, 14751, 15859-864, 17322  
     national conference, 10465  
     new role of Commerce Dept. in marketing (address), 227  
     premium on marketing, trillion dollar economy (address), 8924  
     sample display service, new way to find agents and distributors overseas, 4923, 14207  
     Scandinavia today, billion dollar U.S. market, 9603  
     small marketers aids, annual compilation, 2858  
     *see also* names or classes of commodities, etc., marketed.  
**Marking, Lief L., investigations in fish control, 8033**  
**Marking:**  
     ammunition components, inert, for shipment, military standard, 10899

# INDEX 1967

Marking—Continued  
country or origin marking requirements  
on U.S. imports, 7842  
fish with dyes and other chemicals, 4812  
identification marking of—  
administrative wheeled vehicles, mili-  
tary standard, 4678  
aluminum, magnesium, and titanium  
Federal standard, 8008  
nickel and nickel base alloys, Federal  
standard, 16603  
identification of combat and tactical trans-  
port vehicles, 12443  
industrial, industrial plant equipment  
handbook, 7850  
iron and steel products, Federal standard,  
2269  
price marking—  
cases nt grocery warehouses, use of  
adhesive labels, 10155  
meat and poultry in retail food stores,  
systems and equipment, 7276  
steel products, recommendations of trade,  
amdt., 6920  
supplies and equipment, AMC pamphlet,  
4192  
Marksmanship, *see* Shooting.  
Markwalter, George, claim, 7619  
Marquesas Islands, *see* French Polynesia.  
Marquette Iron Range :  
notation procedures for fine-grained hema-  
tite ores, laboratory, etc., development,  
14335  
water resources of area, 14183  
Marquis, David A., germination and growth  
of paper birch and yellow birch in simul-  
lated cuttings, 4849  
Marriage :  
characteristic of metropolitan population,  
10360  
District of Columbia license, blood test  
and waiting period requirements,  
transfer authority to waive—  
law, 13533  
reports, 12384, 13641  
documentary requirements for United  
States citizens in Italy, agreement,  
15767  
marital status, Mar. 1966, population char-  
acteristics, 4350  
United States, 1962, statistics analysis,  
5471  
vital statistics of U.S., 10070  
Married persons, *see* Husbands and wives.  
Mars, Lawrence I., exploratory cost-benefit  
analysis of vocational rehabilitation,  
18196  
MARS, *see* Military Affiliate Radio System  
(MARS).  
Mars (planet) :  
atmosphere—  
flyby measurements of profiles of water  
vapor, etc., 15569  
investigation, 5276  
properties, feasibility study of experi-  
ment for determining, 14371  
Earth-Mars-Earth flight, minimum time  
with unregulated low-thrust engine,  
USSR study, 17881  
Mariner IV, review of results, 14402  
meteorology, summary of available knowl-  
edge, 11410  
nominal natural environment for advanced  
planetary mission programs, 8436  
physical properties, handbook, 15516  
Voyager 1973 mission, space flight investi-  
gations, opportunities for participation,  
17019  
*see also* Satellites.  
Marsetta, Marion E., legibility of military  
map symbols on television, 63  
Marsh, K. R., V/STOL concepts for short-  
haul transport aircraft, 5171  
Marshall, George C :  
20-cent regular postage stamp—  
ceremony (address), 18135  
poster, 154647

Marshall, Thurgood :  
nomination—  
hearings, 13876  
report, 15062  
Marshals :  
Federal, appointment records, pamphlet  
to accompany microcopy Idaho, Ter-  
ritory and State, 18071  
United States, appointment by Attorney  
General, hearings, 2054  
Marson, Frank M., bibliography on snow, ice,  
and frozen ground, 14791  
Marti Priete, Marcial A. (Alfred), relief,  
347  
Martian atmosphere, *see* Atmosphere.  
Martin, Clark S., Santa Rita Experimental  
Range, center for research on improve-  
ment and management of semidesert  
rangelands, 2331  
Martin, D. O., interstate air pollution study,  
meteorology and topography, 11739  
Martin, E. Dale, method of asymptotic ex-  
pansions for singular perturbation prob-  
lems with application in viscous flow,  
9885  
Martin, J. Rod, growth and capital accumu-  
lation of farms in rolling plains of Okla-  
homa and Texas, 17336  
Martin, R. O. R., reservoirs in United States,  
4895  
Martin, Troy C., fluorescent excitation using  
isotopic X-ray emission, 5779  
Martin, William M., jr. :  
remarks—  
Jan. 30, 1967, 4787  
May 16, 1967, 11058  
June 26, 1967, 12536  
Martin Company workers, reemployment ex-  
periences, effects of defense employment re-  
adjustments, 5720  
Martin Del Campo, Roberto, relief, 13608,  
17535  
Martin Ruiz del Castillo, Antonio, relief,  
15068, 16223, 17525  
Martin River and Valley, area, geomorphic  
effects of earthquake, 2370  
Martinez, Alberto L., relief, 579  
Martinez, Eleanor R. Diaz, *see* Diaz, Beatriz.  
Martinez, Mario G., relief, 9218, 12236,  
13494  
Martinez-Farinas, Luis O., relief, 13743,  
16190, 17504  
Martinez Torres, Rafael P., relief, 335, 571  
Martinez y Corpas, Miguel A., relief, 259,  
871  
Martinson, R. Kahler, factors influencing  
waterfowl counts on aerial surveys, 15268  
Marty, Robert :  
compound interest tables for long-term  
planning in forestry, 13212  
planning for timber-tract development,  
11137  
Martz, Helen E., national blueprint for pub-  
lic welfare, 4897  
Martz, Richard L. :  
auditory vigilance as affected by signal  
rate and intersignal interval variability,  
11346  
bibliography and index of research in hu-  
man and animal vigilance, 9753  
signal presentation rate, auditory thresh-  
old, and group vigilance, 11349  
Maryland :  
area measurement reports, 5812  
census of agriculture, 1964, State and  
county statistics, 7508  
census of manufactures, 1963, area sta-  
tistics, 157  
census of mineral industries, 1963, area  
statistics, 5829  
climatological data, 3096  
congressional districts, 90th Congress,  
5901  
construct, maintain, and operate addi-  
tional bridges and tunnels across or under  
Chesapeake Bay, report, 16273

**Maryland—Continued**  
 county business patterns, 1864, 13374  
 differential assessment of farmland near cities, experience, 17712  
 electric rate book, 4774  
 fossil marine mammals from miocene Calvert Formation, 1530  
 landings, fish and shellfish, 3545, 17770  
 mineral industry, minerals yearbook chapter, 5116  
 precipitation data, hourly, 3401  
 site index of sweetgum stands in relation to soil characteristics, 4832  
 timber resources, 17808  
 transit compact, approval—  
     hearing, 2132  
     law, 478  
     report, 654  
 women, legal status, 1667  
 yellow-poplar, treatments needed to regenerate, 17804  
**Maryland-National Capital Park and Planning Commission**, information system for urban planning, 11207  
**Maryland tobacco**, see Tobacco.  
**Marysville Dam and Reservoir**:  
     engineer report—  
         departmental edition, 1027  
         document edition, 525  
**Masers**:  
     bibliography, 14407  
     hydrogen maser as highly stable frequency reference, 11475  
     parametric up-converter increases flexibility, 9859  
**Masla, William J.**, liquid surface motion in response to lateral acceleration during weightlessness, 12966  
**Masked DL for pitch memory**, 11348  
**Masked form of messenger ribonucleic acid**, USSR, 8539  
**Masking materials**, silver-palladium braze alloy, recovered from, 6793  
**Masks**, protective, available for agricultural workers in USSR, description, 2457  
     see also Oxygen masks.  
**Mason, Brian**, composition of Allegan, Burghelua, and Cynthia meteorites, 18089  
**Masonry**, concrete masonry construction for cabins, building plan, 5664  
**Masons**:  
     safe work guide, 11304  
     stone and brick, examination announcement, 10415  
**Mass (physics)**:  
     dynamic characteristics of variable-mass slender elastic body under high accelerations, 5188  
     realistic uncertainties and mass measurement process, illustrated review, 15592  
**Mass rearing fall armyworm in laboratory**, 8805  
**Mass spectra**, see Spectra.  
**Mass spectrometers**, see Spectrometers.  
**Mass spectrometry**, see Spectrometry.  
**Mass Spectrometry Section**, Analytical, see Analytical Mass Spectrometry Section.  
**Mass spectroscopy**, see Spectroscopy.  
**Mass transfer**:  
     characteristics of axial-flow liquid-core nuclear rocket, 14497  
     heart and mass transfer at stagnation point, 12869  
     in capillaries and porous media, 8211  
     in stainless steel-Cb-1Zr-potassium system, and effect of stabilization of carbon and nitrogen in stainless steel, 12864  
     saline water systems, properties, 2393  
     sublimation from snow-surface, investigation, 4198  
     through liquid interface, mechanism, 8215  
**Mass transportation**, see Transportation.

**Massachusetts**:  
     area measurement reports, 10336  
     bus taxation proration compact, consent of Congress, law, 440  
     census of agriculture, 1964, State and county statistics, 7501  
     census of mineral industries, 1963, area statistics, 5830  
     county business patterns, 10345, 10349  
     electric rate books, 1055, 15246  
     geology of selected quadrangles (series), 6389, 9560  
     housing discrimination in Springfield-Holyoke-Chicopee metropolitan area, report, 4385  
     Ipswich River basin, water resources, 6411  
     landings—  
         by ports, 1966 summary, 12543  
         fish and shellfish, 3546  
**Massee, T. W.**, moisture conservation for wheat production, 4088  
**Masser, Charles C.**, vapor pressure data extrapolated to 1000 atmospheres for refractory materials, etc., 18015  
**Mastenbrook, Henry J.**, water vapor observations, 5362  
**Masters of ships**, see Shipmasters.  
**Masteron, William J.**, relief, 7626, 12348, 13475  
**Matamoros, Mexico**, despatches from U.S. consuls, microcopy, pamphlet to accompany, 18060  
**Matanuska River and Valley**, Cretaceous ammonites from Matanuska Formation, 8170  
**Matching studies series**, 8955  
**Materials**:  
     Army and Marine Corps, transfer of excess, expedited by improved procedure, GAO review, 14163  
     atomic—  
         AEC-contractor management meeting, 13316  
         development programs, summaries, 4238  
         program, AEC authorizing legislation, 1968, hearings, 10491  
     beautiful junk, inexpensive materials for preschool program, 17709  
     building materials, USSR industrial development, translations, 4017  
     defense materials system program identification symbols, used in segregating renegotiable and nonrenegotiable subcontracts, 13105  
     distribution and receipt, Atlantida, household sample surveys, 1885  
     future in materials (address), 17472  
     hard superconductive, ac properties determined by simple technique, 6817  
     high temperature bearing cage materials, evaluation, 5274  
     industries, East European, translations, 3957  
     laser, research, 5344  
     nuclear, see, above, atomic.  
     opaque, surface temperature measurements with pyrometry, 2649  
     preservation, packaging and packing, Federal test method standard, 16605  
     pyroelectric, research program, 5159  
     reactor, quarterly technical progress review, 3807  
     science—  
         Communist Chinese abstracts, 3122  
         East European abstracts, 3223  
         USSR abstracts, 4030  
     selected materials consumed, 1963 census of manufacturers, 4277  
     selected, thermal conductivity, 1523  
     solid, mass spectrometer analysis with ion-microprobe sputter source, 5178  
     spacecraft, metallic materials and elements for aerospace vehicle structures, military handbooks, 7860, 9370



**Materials—Continued**  
 standard reference materials, National Bureau of Standards—  
 catalog and price list, 17033  
 quarterly insert sheets, 1519, 11582  
 new materials, publications, etc., 11588  
 news for users of, 12987  
 organic, 18081  
 strength and plasticity, USSR research on scientific bases, 2453  
 structural—  
 high strength, metallurgical characteristics, 5363, 10014  
 isostatic compression process converts polyaromatics into, 12898  
 thermal protection, sensors to obtain in-flight ablation measurements, development, 1494  
 thermoluminescent, emission spectra, 1552  
 thermoplastic rubberlike, low cost production, 2623  
 trace characterization, chemical and physical methods, measurement methodology, 12985  
 see also Coating materials—Composite materials—Wicking materials—also names of materials.  
**Materials handling:**  
 Army technical manual, changes, 7402, 14803  
 equipment, Federal Item identification guides for supply cataloging, supplements, 3285  
 feeders, industrial plant, equipment handbook, 6141  
 radioactive, international traffic, 7432  
 safety in industry, instructor outline, 9681  
 standard time data, manual 10898  
 change, 17699  
 technical manual, 115  
**Materials Research Institute, see Institute for Materials Research.**  
**Matériel, see Military supplies.**  
**Mathematical models, see Mathematics.**  
**Mathematicians:**  
 Army, 12th conference, transactions, 8876  
 examination announcement, amendment, 4388  
**Mathematics:**  
 algorithms—  
 for approximate solution of resource distribution problem, etc., 17868  
 for synthesis of asynchronous sequential circuits, 1473  
 ambiguity function independent of assumptions about bandwidth and carrier frequency, 8598  
 application of mathematical methods in military affairs, USSR book excerpts, 15359  
 applied, computers, and information models, USSR study, 16735  
 applied mathematics series, 14513  
 asymptotic—  
 behavior of solutions of boundary problems for quasilinear differential equations, 11573  
 expansions method for singular perturbation problems with application in viscous flow, 9885  
 celestial mechanics, new methods—  
 integral invariants, periodic solutions of 2d type, doubly asymptotic solutions, 11561  
 Newcomb, Gylden, Lindstedt, and Bohlén methods, 11560  
 periodic solutions, non-existence of integral invariants, asymptotic solutions, 9921  
 choice of parameters of influence functions using analog computer, 1181  
 communications—electronics, principles and applications, technical manual, change, 15953  
 Communist Chinese abstracts, 3123  
 computer programs, compilation, 5196

**Mathematics—Continued**  
 computer solution of exponential decay or washout curves, evaluation, 15894  
 course and curriculum improvement projects, 5324  
 decision model algorithm of Leont'yev type, 17879  
 East European abstracts, 3224  
 economic-mathematical research at Leningrad, 1202  
 economic planning aided by, USSR, 1328  
 educational activities, USSR, 1341  
 instruction, financial assistance guidelines under NDEA, 13956  
 mathematical methods of interpreting and evaluating proteologram and their practical significance, USSR study, 12694  
 mathematical problems of cybernetics and computer engineering, USSR study, 16784  
 mathematical theory of critical state of reactors, certain problems, USSR study, 15357  
 mathematics and mathematical physics, journal of research, National Bureau of Standards, 3459  
 mathematics in space science (series), 8513  
 Mathieu functions, tables, 14513  
 minimum initial impulse under arbitrary initial velocity vector, optimum transfer between 2 terminal points, 1427  
 model of method of orbit adjust and station keeping gravity-oriented satellites, 2688  
 national defense education act, loans to private nonprofit elementary and secondary schools for equipment and materials, 1007  
 Navy training course, 7020  
 optimal training algorithms for automatic systems in case of nonideal teacher, USSR study, 9619  
 periodic solutions for restricted 3-body problem of celestial mechanics, 9813  
 problem of meeting movements, USSR study, 15427  
 proper rotations of 3-dimensional orthogonal frame, 6861  
 quadratic-regression analysis, fitting surfaces to assay and other three-dimensional data, computer method, 2580  
 research, summaries of projects supported by AEC, 12015  
 Rumania, center for mathematical statistics, activities, 1195  
 scientific tests, standards, publications, price list, 2804  
 stability theory of multistep methods, 11523  
 statistical technique for dynamic analysis of vehicles traversing rough yielding and non-yielding surfaces, 8407  
 tables—  
 folded-sin  $x/x$  coefficients, 4413  
 Hadron production reactions, consequences of unitary symmetry, 5759  
 interference factors for use in correcting data from VTOL models in wind tunnels with 7 by 10 proportions, 9825  
 teachers in Peace Corps, 5380  
 technician, examination announcement, 1910  
 USSR abstracts, 4031  
 voting function for continuous quantities, USSR study, 8263  
 Weber functions and derivatives, FOR TRAN program for computation, 8484  
 see also Algebra—Arithmetic—Equations—Integration (mathematics)—Optimal processes—Programming (mathematics)—Randomness (mathematics)—Transformations (mathematics).  
**Mathematics aids, mathematics technicians, examination announcement, 13445**



- Mather, Bryant, cement performance in concrete, 16528
- Mather, J. Warren, major regional cooperatives handling supplies, 7943
- Mathers, Boyd L., different viewing devices for photo interpretation, 10283
- Mathews, David R., properties of vanadium-base tungsten and chromium alloys, 9780
- Mathias, Adrian J., mine production-scheduling model, etc., for long-range mine planning, 9786
- Mathieu functions, tables, characteristic values, coefficients and joining factors, 14513
- Mathis, Billy, oil and gas lease, reinstate, 530, 12324
- Mathur, S. C., gamma ray angular distribution coefficients, 12013
- Matrices (mathematics):  
matrix algebra, basic properties, 15464  
matrix analysis of longitudinal and torsional vibrations in nonuniform multi-branch beams, 6886  
matrix-Holzer analyses for fully-coupled vibrations of clustered launch-vehicle configurations, 5158  
stiffness matrix solution for shells of revolution possessing variable thickness heat protection, 11314  
structural analysis and matrix interpretive system, (SAMIS), 12899  
transformation to phase-variable canonical form, 12923
- Matter of life and death, 5377
- Matter, particulate, profile in Martian atmosphere, flyby measurements, 15569
- Matthai, Howard F., measurement of peak discharge at width contractions by indirect methods, 14176
- Matthews, Earle D., soil survey of Queen Annes County, Md., 2874
- Matthews, Howard A., educating for 21st century manpower needs, tomorrow is now, 17717
- Matthews, Ralph, jr., communities in action, 3124
- Matting, Fred W., surface ablation of non-charring materials, 2724
- Matresses, current industrial reports, 3169, 8941
- Mattson, Peter H., Cretaceous and lower Tertiary stratigraphy in west-central Puerto Rico, 17820
- Maughao, Edwin K., Big Snowy and Amsden groups and Mississippian-Pennsylvanian boundary in Montana, 15309
- Mauglialardi, Gino J., effects of grid-bar air wash on efficiency of flat cleaners and fiber quality of cotton, 14759
- Maul:  
Iao Stream, engineer report—  
departmental edition, 13977  
document edition, 13559
- Maumee River:  
basin, engineer report—  
departmental edition, 2212  
document edition, 2001
- Maurer, Alao O.:  
basic data on economy of—  
Fed. Rep. of Germany, 10463  
Italy, 16107
- Mauritania:  
background notes, 8709  
capsule facts for Armed Forces, 10247  
labor conditions, 1381  
Peace Corps volunteers, agreement, 7177  
Mauritius, labor conditions, 1382
- Maurolucys LAC 113, lunar chart, 8865
- Mavrodineanu, R., bibliography on flame spectroscopy, analytical applications, 8519
- Maxie, E. C., radiation technology in conjunction with post-harvest procedures as means of extending shelf life of fruits and vegetables, 5792
- Maximum principle, see Principle of the maximum,
- Maxwell, Armine J., soil of Love County, Okla., 8899
- Maxwell, John A., claim, 13586
- May, Timothy C., pumice, 1407
- Maya, Jacobo Albo, see Albo Maya, Jacobo.
- Maybe Creek, geology of Umat-Maybe Creek region, 8159
- Mayer, Jean, obesity and health, 1585
- Mayes, Herman F., electrically operated gates for livestock markets, 10153
- Mayonnaise:  
and related products—  
current industrial reports, 12079  
industry reports, 145-146, 12028
- Mayors of each city with local airline service, CAB letter, 3937
- Maypa, Visitacion E., relief, 16199
- Maysville, Ky., Upper Ordovician formations in area, 2361
- Maytin, Orlando H., relief, 15071, 16225, 17527
- Mazy, R. S., internal restraint system for integrated restraint-pressure suit system, 6727
- MB-5, see Firefighting vehicles.
- MB series, 2962
- MDTA (Manpower development and training act) see Manpower.
- Mead, Margaret, changing cultural patterns of work and leisure, 5042
- Mead, Robert L., power from radioisotopes, 7444
- Meade, Robert H., petrology of sediments underlying areas of land subsidence in central California, 12607
- Meador, Willard L., decompression sickness in high-altitude flight, 14778
- Meal:  
domestic corn meal bulletin, 3215  
enriched cornmeal, good choice for thrifty family, food value, use, recipes, 10876  
export corn meal—  
port bulletin, 3248  
price bulletin, 3249  
oilseed meals, production and use, post-war trends, 9391
- Mealey, Charles, computer-controlled central digital data acquisition system, 11492
- Meals, see Food.
- Means for improving apparent resolution of television, 11478
- Menses, rubella, general information, 14626
- Measure before you buy used clothes for your school boy or girl, 7284
- Measurements:  
Aerospace measurement techniques, symposium, 6734  
local, in turbulent flows through cross correlation of optical signals, 8462  
meteorological, new methods, USSR studies, 11272  
pacemaker of American economic growth, 7563  
peak discharge at dams by indirect method, techniques, 9576  
peak discharge of streams by—  
indirect method at width contractions, 14176  
indirect method, techniques, 11184  
slope-area method, techniques, 11185  
remote measuring systems, computer program determines performance efficiency, 2638  
repeated design on experimental units in 2-way classification, analysis, 7348  
results from full-scale measurements of midship bending stresses on 2 dry-cargo ships, 10076  
vacuum and low pressure, bibliography and index supplement, 12984  
velocities in air, evaluation of smoke-wire technique, 10293  
see also subject of measurement.
- Measures, see Metric system—Weights and measures.

Measuring instruments:

Federal item identification guides for supply cataloging, supplements, 3286  
system enables dimensional inspection of very large structures, 14422  
web belt load measuring instrument has excellent stability, 14436  
weighing and measuring devices, specifications, etc., replacement pages, 6914  
see also Electronic measuring instruments.  
Measuring quality of housing, appraisal of census statistics and methods, 13413  
Measuring tools, see Measuring instruments.

Meat:

agricultural commodity grader (meat), examination announcement, discontinuance notice, 16076  
canned chopped or luncheon, good choice for thrifty family, food value, use, recipes, 9351  
commercial production, 11879  
foreign agriculture circulars, 3345  
freezing in home, 31  
how to use USDA grades in buying, 5671  
industry—  
Argentina, 11099  
Mexico, 8048  
New Zealand, 11097  
Uruguay, 11098  
inspection act, amend—  
hearings, 15011  
reports, 16255, 17579  
inspection, Federal, 1966 statistical summary, 6130  
inspection procedures manual, 3537  
inspection regulations of USDA, 3814, 6132  
institutional purchase specification, approved by USDA portion-cut products, 7838, 12429  
livestock and meat situation, 3517  
livestock-meat economy, simulated inter-regional models, 12453  
luncheon meats, what label means, 966  
market news weekly summary and statistics, 3518  
marketing and price information, Texas and Oklahoma, 13941  
packaging and price marking in retail food stores, systems and equipment, 7276  
processing plants, chemical compounds authorized for use under USDA inspection programs, lists, 10878, 16445  
products, processing, new technological methods, 6546  
quality, effect of malnutrition of young cattle, 14765  
quality products, expanding exports, report, 10794  
statistics—  
1965 supplement, 4142  
1966 supplement, 13248  
see also Packing industry.  
Meat animals, see Livestock.  
Mechanical absorption of acoustic oscillations in simulated rocket combustion chambers, 5264  
Mechanical designs, see Designs (industrial).  
Mechanical engineering:  
Navy design manual, changes, 2765  
research of TVA Engineering Laboratory, 17260  
Mechanical fans:  
airborne lightweight high-efficiency radial fan, aerodynamic testing, 10292  
current industrial reports, 3170, 12070  
industrial plant equipment handbook, 4674  
lift and lift-cruise, aerodynamic characteristics of V/STOL transport model, 14484  
lightweight structural design techniques for lightweight fans, 117  
Mechanical impedance and mobility concepts, 5353  
Mechanical mobility, concepts and mechanical impedance, 5353

Mechanical power transmission, see Power transmission.

Mechanical samplers, see Samplers.

Mechanics, dissertations on, defended at Ukrainian Institute in 1965, 1302

Mechanics (persons):

apprentices, examination announcement, amdt., 203  
aviation, inspection authorization, handbook and study guide, 14013  
aviation structural mechanics—  
H 3 & 2, Navy training course, 18105  
S 1 & C, Navy training course, 17078  
cash register repairmen, apprenticeship and training policy, 7373  
construction mechanics 3 & 2, Navy training course, 7013  
machinery repairman—  
1 & C, supplement, 11658  
3 & 2, supplement, 11658  
schools, Federal aviation regulations, 11002

Mechanics (science):

penetration of high speed particles, multivariable analysis, 6708  
see also Quantum mechanics  
Mechanism of conditioned reflexes and memory, USSR, 5014  
Mechanism of deuteron breakup by 42-Mev alpha particles, 18032  
Mechanism of mass transfer through liquid interface, 8215  
Mechanism of memory, USSR, 8268  
Mechanisms of superconductivity investigated by nuclear radiation, 9830

Mechanization:

AEC library, legislative information, 5790  
base procurement mechanization, Air Force, 10211  
technical research status surveyed in Hungary, 15415

Medals:

commemorative—  
centennial of completion of 1st transcontinental railroad, report, 13822  
Ellis Island designation as part of Statue of Liberty National Monument—  
law, 394  
report, 899  
land bank system—  
law, 397  
report, 690  
Navy Civil Engineers Corps 100th anniversary, law, 487  
1,000th anniversary of founding of Poland, law, 361  
Seabees 25th anniversary, law, 487  
see also Decorations of honor—also names of medals, or persons to whom medals are to be presented.

Mediators, National Mediation Board, examination announcement, 14868

Medical advisory boards for driver licensing, 8638

Medical and Surgery Bureau, Navy, manual of Medical Department, change, 9752

Medical bulletin, Medicine and Surgery Dept., VA, 2962

Medical care:

aeromedical evacuation, patients' views of patient care, 17350  
aged and chronically ill, charges for care in institutions, 17169  
aged persons—  
costs and delivery of health services to older Americans, hearings, 17633  
health insurance, extend deadline for enrollment—  
law, 16142  
report, 16264  
health insurance, hospital manual, 10084  
health insurance, initial operating data, 5515

Medical care—Continued

aged persons—continued  
 social security amendments of 1967—  
 hearings, 15154, 16409  
 reports, 14953, 14964  
 summary, 15053  
 Air Force manual, 10221  
 assistance under social security act,  
 amend title 19, report, 697  
 Canada, legislation, 5516  
 chart book, National Conference on Medi-  
 cal Costs, 14185  
 comprehensive care services in your com-  
 munity, 5426  
 coordinated home care programs—  
 development and administration, guide,  
 5432  
 1964 survey, 8625  
 disabled workers, data on utilization,  
 17202  
 District of Columbia—  
 participation under title 19 of social  
 security act, report, 13645  
 under 1965 social security amendments,  
 enable to participate in benefits,  
 hearings, 10645  
 extended care facilities, providers of serv-  
 ices under health insurance for the  
 aged, directory, 15738  
 facilities available to Federal employees  
 injured in performance of duty, 16514  
 facility projects approved for Federal aid  
 under Hill-Burton program, register,  
 3398, 8633, 18169  
 financing and utilization, source book of  
 data through 1961, selected revisions,  
 15685  
 Foreign Service, etc., benefits in high-risk  
 situations, report, 10768  
 home care training center in United  
 States, 1578  
 home care, what it is, 5436  
 home health agencies, providers of serv-  
 ices under health insurance for the  
 aged, directory, 11793  
 home health care, planning, summary of  
 development, following medicare and  
 medicaid, 10057  
 home health services in your community,  
 11735  
 hospitals, providers of services under  
 health insurance for the aged, directory,  
 11794  
 how much does medicare pay for outpa-  
 tient hospital services, 11797  
 inquiry into alleged improper practices in  
 providing services to old-age assistance  
 recipients in Cleveland, Ohio area, GAO  
 report, 8150  
 insurance contract, recovery of excess  
 funds accumulated, GAO review, 8145  
 medical assistance, medicaid, questions  
 and answers, 10972  
 medical self-help training, if disaster  
 strikes and there is no doctor, course,  
 announcement, 11738  
 medical service—  
 duration of illness, Air Force pamph-  
 let, 8858  
 field sanitation team training, Army  
 pamphlet, 10264  
 medical services and facilities on board  
 spacecraft, USSR study, 8245  
 medicare—  
 almost 65? important information,  
 5509-10, 8688  
 and extended care facility, what it  
 means to you, 7125  
 extend program, message from the  
 President, 12198  
 general information, 5506  
 health insurance statistics, current sur-  
 vey report (series), 17197  
 hospital and medical insurance for peo-  
 ple 65 or over, 5511

Medical care—Continued

medicare—continued  
 how it helps when entering hospital,  
 5513  
 insurance claims, methods of payment,  
 7127  
 payments to agency providing home  
 health benefits, 7128  
 program, extended care benefits after  
 hospitalization, 2865, 11796  
 provider costs, reimbursement princi-  
 ples, 5503  
 railroad retirement beneficiaries who re-  
 ceive social security payments, 15739  
 services by hospital-based physician, re-  
 imbursement principles, 7119  
 supplementary medical insurance, serv-  
 ices used, survey, 17197  
 your 1st \$50 of medical expenses meets  
 calendar-year deductible, 7126  
 your health insurance, facts, 13209  
 military medical benefits act of 1966—  
 law, 365  
 reports, 664, 14941  
 needs for services revealed by Operation  
 Medicare Alert, 937  
 new title 19, medical assistance pro-  
 gram, brief summary, 2228  
 paid through public assistance to vendors,  
 utilization, 10974  
 physician speaks on home care, 7082  
 prices, report to the President, 8194A  
 provision by Public Health Service, legal  
 aspects, 1582  
 public assistance—  
 medical services on emergency basis to  
 any individual to prevent loss of  
 life due to lack of medical atten-  
 tion—  
 hearing, 17587  
 report, 15080  
 vendor payments—  
 by program and source of funds, 9436  
 by type of service, 10971  
 recipients, etc., 13997, 16542  
 self-help training course, family guide,  
 emergency health care, reference guide  
 for students, 4378  
 self-help training, Danny Thomas in dra-  
 matic motion picture, announcement,  
 13077  
 training homemaker-home health aide in  
 personal care, 15714  
 uniformed services health benefits pro-  
 gram, 13287  
 USSR, measures to improve medical serv-  
 ice of population, 6538  
 VA nursing home care programs, opera-  
 tion hearings, 15050  
 veterans—  
 grants-in-aid, agreement with Philip-  
 pines, 14685  
 history of Veterans' Administration  
 medical program, 12318  
 veterans' views on care in VA hospitals,  
 1967 survey, 10683  
 Veterans Administration program, oper-  
 ations, 9173  
 see also Health insurance.  
 Medical certificates:  
 physicians' medical certification, death,  
 fetal death, and birth, handbook, 13088  
 reviewing and acting on, FPM manual  
 supplement, 3299.  
 Medical Costs, National Conference on, see  
 National Conference on Medical Costs.  
 Medical Department, Army, neuropsychiatry  
 in World War II, 13311  
 Medical Department, Navy:  
 manual, changes, 1395, 5083-94, 6630,  
 9752, 11345, 14315-316  
 support to Fleet Marine Force, 5092  
 Medical education, see Medicine.  
 Medical examinations, see Physical exami-  
 nations.

Medical examiners, handbook on death and fetal death registration, 15695.  
 Medical facilities, *see* Hospitals.  
 Medical industry, USSR medical industry (periodical), translations, 4023  
 Medical institutions, *see* Clinics—Hospitals.  
 Medical instruments and apparatus:  
   electronics, new devices developed, 1264  
   Federal item identification guides for supply cataloging, supplements, 3290.  
 USSR—  
   description, 12722  
   new medical apparatus, 17877  
 Medical insurance, *see* Health Insurance.  
 Medical Insurance Trust Fund, Federal Supplementary, *see* Board of Trustees of Federal Supplementary Medical Insurance Trust Fund.  
 Medical journals, index medicus, cumulated, 6940  
 Medical laboratory technicians, medical laboratory assistant, suggested guide for training program, 4714  
 Medical literature, translations, bibliography (periodical), 3057  
 Medical Museum of Armed Forces Institute of Pathology:  
   hall of medicine, general information, 2153  
   leaflets, 2153, 12442  
 Medical Nutrition Laboratory, *see* Army Medical Research and Nutrition Laboratory.  
 Medical occupations, careers as medical auxiliaries, 17455  
 Medical officers, naval, residencies and specialty courses, 1396  
   *see also* Physicians.  
 Medical practice, *see* Medicine.  
 Medical records:  
   information on chronic conditions compared with interview data, 11762  
   organizing health record systems, guide for nursing homes and homes for aged, 7072  
 Medical research, *see* Medicine.  
 Medical restraint of trade act, hearings, 17661  
 Medical schools, USSR, medical training improvements sought, 15407  
 Medical service, *see* Medical care.  
 Medical supplies:  
   central sterile supply section of packaged disaster hospital, organization, 1577  
   Federal item identification guides for supply cataloging, supplements, 3290  
   hospital central services, manual, 1579  
   treatment tray and sets prepared in hospital, cards, 1592  
 Medical technicians, USSR, medical worker's day celebration, 2476  
 Medical technologists:  
   examination announcement, 10412  
   grants for training program improvement law, 463  
 Medical zoology, *see* Zoology.  
 Medicare, *see* Medical care.  
 Medicated man (address), 14075  
 Medicine:  
   Academy of Medical Sciences, USSR—  
     nominations, 5022  
     pediatrics session, report, 2461  
   aeromedical reviews, 4174, 7340, 11953, 14769  
   aerospace—  
     bibliographies, 1442, 2620, 5197-98, 6739, 8444-45, 11434, 12883, 14408, 15519, 16934-935  
     cumulative index, 8443  
   central nervous system functions, effect of spaceflight factors, 12973  
   contaminants produced by man in space cabin simulator, 11955  
   trace contaminants contained in samples from closed environment at 258 mm.hg, analysis, 10234

Medicine—Continued  
   associate training programs, medical and biological sciences, NIH, 5420  
   aviation medical education series, 5801, 8920-21, 14811  
   aviation medical report AM series, 136-141, 1820-23, 4248-55, 5802-4, 7446-47, 10320-322, 13351, 14812, 15979-981, 17410-414  
   bibliographies—  
     medical reviews, 15597  
     medical translations, annual index, 14526  
   classification, Library of Congress, 5088  
   clinical medicine, USSR periodical, translations, 1347  
   clinical observations of man in oxygen-helium atmosphere, 90  
   compartments, pools, and spaces to medical physiology, symposium, 15959  
   compressed air, diving and submarine medicine, bibliographical sourcebook, 6628-29, 14314  
   control sciences applied, USSR studies, 1322  
   dollars for medical research, 1947-66, sources and performers, 10062  
   education of health service personnel—  
     clarify responsibility of VA, law, 489  
     Public law 89-785, lack of implementation by VA hearings, 16344  
   electronics application, USSR research, 4970  
   experimental and clinical, trace elements, USSR book review, 1344  
   failings noted of Gor'ky Medical Institute, USSR, 4936  
   film reference guide, 13073  
   future international meetings, world list, 4073  
   group practice facilities, financial assistance for constructing and equipment, law, 465  
     summary, section-by-section analysis, legislative history, and conference report, 725  
   group practice facilities program, information guide and instruction handbook, 14024  
   hall of medicine, general information, 2153  
   index medicus, 3407  
     cumulated, 6940  
   internal, residency training, Veterans Administration Center, Dayton, Ohio, 15818  
   Khabarovsk Medical Institute, recent developments, 2450  
   medical advertising, compendium, 14074  
   medical and biological problems of spaceflights, 1315  
   medical benefits from space research, 17948  
   medical bulletin, 2862  
   medical cybernetics, introduction, 14503  
   medical education problems in Tadzhikistan, 2474  
   medical educational extension service program, USSR review, 2433  
   medical ethics and research, symposium, 18247  
   medical news letter, Medical and Surgery Bureau, 3547  
   medical research—  
     development in Belorussian SSR, 12731  
     program 1966, Veterans Administration, synopsis, 2963  
     reports from Priroda, 16778  
     Veterans' Administration, reports, 4563, 7218  
   medical science in Georgian SSR, 1155  
   medical subject headings, 3407  
     cumulated, 6940  
   medical training costs too much, 10934  
   medical training in Veterans Administration, 8782  
   medicated man, use and abuse of drugs (address), 14075

Medicine—Continued

- Navy, statistics, quarterly, 3904
- notes for medical catalogers (periodical), 3030
- notes on biometry in medical research, 17284
- preventive, residency training under public health trusteeship, program, 7090
- program, AEC authorizing legislation, 1968, hearings, 10491
- regional medical programs, guidelines, 13076
- rehabilitation counselor, survey, medicine and medical practice for, instructor's manual, 10128
- research highlights, NIH work, 10061
- resources for medical research, report, 10062
- School of Aerospace Medicine, technical reports, 65-92, 1730-44, 4175-87, 5706-15, 8868-69, 7341-70, 10231-244, 11954-967, 13269-272, 14770-782, 15894-901, 17346-363
- scientific information needed, USSR study, 15413
- simulation, USSR study, 15356
- space—
  - clinical, problems from hazards of space operations, 14399
  - contaminants in closed ecologic atmosphere, analysis, 7350
  - programmed physiological measurements, 6533
  - Soviet conference, reports, 1228
  - trace constituents of closed ecologic system, delineation program, 7369
  - trace elements, USSR studies, 6542
  - tracer theory for analysis of whole-system retention data, turnover compartmentalization, 12012
- USSR—
  - Academy of Medical Sciences, vestnik (periodical), 4036
  - better coordination of research and practice urged, 6500
  - expansion in medical research needed, 1289
  - medical history reviewed, 14227
  - medical organizations, news, 1226
  - medical research praised and criticized, 6567
  - prospects and achievements, 15360
  - translations, 14271
- see also Veterinary medicine.
- Medicine and Surgery Department, Veterans Administration:
  - clarify, improve, and add programs, law, 489
  - medical bulletin, 2962
  - medical education, etc., Public law 89-785, lack of implementation, hearings, 16344
- Medicines:
  - and other pharmaceutical preparations dispensed by pharmacies without physician's prescription, Czechoslovakian list, 12673
  - cost and acquisition of prescribed and non-prescribed medicines, July 1964-June 1965, United States, 5467
  - medicinal chemicals, synthetic organic production and sales, 18238
- see also Drugs.
- Medico-moral ethics for hospital ministry, 15817
- Medico-physiological incidences on pilot for flight patterns typical of VTOL, 11563
- Mediterranean Sea:
  - contributions to hydrology of Africa and Mediterranean region (series), 11189
  - expedition on board USSR research vessel, Akademik S. Vavilov, results, 15352
  - lights and fog signals, list, changes, 1538, 5333, 11643, 18100
  - notice to mariners, 3641
  - radio navigational aids, changes, 5336, 9974, 11646, 14580, 18102

Mediterranean Sea—Continued

- radio weather aids, 1540, 9975, 14581
- sailing directions, changes, 11635, 15627-628, 17072, 18097
- tide tables, 12120
- Meelinn, Eugene J., introductory science, USAF1 exercise book, 7845
- Meeker, J. I., lateral-directional handling qualities of piloted re-entry vehicles, 12860
- Meet Americans at home, 10126
- Meeting challenge of later years, 8802
- Meetings, see Conferences, congresses, etc.
- Meetings that move, guide to successful meetings on civil defense, 14843, 16052, 17451
- Meerkes, H.C., mineral industry of Wyoming, 2566
- Megonnell, William H., address, Aug. 26, 1966, 1580
- Mehr, Stanley, prune industry of France, 12565
- Mehren, George L.:
  - addresses—
    - Sept. 19, 1966, 30
    - July 10, 1967, 13210
    - Aug. 15, 1967, 15844
- Meinke, W. Wayne, trace characterization, chemical and physical, 12985
- Meirovitch, Leonard:
  - attitude stability of spinning passive orbiting satellite, 6709
  - dynamic characteristics of variable-mass slender elastic body under high accelerations, 5188
- Meiry, Jacob L., vestibular system and human dynamic space orientation, 1428
- Meister, David, evaluation of user reactions to prototype on-line information retrieval system, 17945
- Meltner, Lise, presentation of Enrico Fermi award to (remarks), 134
- Melanotus, see Beetles.
- Melder, Keith, American parade of politics, 10078
- Melfs, Leonard T., variations in gage constant as function of emission current in unshielded open-end grid Bayard-Alpert ionization gage, 6863
- Melichar, Emanuel, bank financing of agriculture, 12530
- Mellin, Frank I. Jr., relief, 13572, 17494
- Mellor, Malcolm, creep of snow and ice, 7380
- Melnick, Edward L., quantitative measures for analysis of fertility series, 7498
- Melnick, Frank, analysis of U.S. exports of scientific industrial and technical instruments, 1958-66, 15983
- Melochia, contribution from National Herbarium, 14532
- Melon flies, see Flies.
- Melons:
  - fresh market, acreage, production, etc., 1959-65 revised estimates, 14762
  - spring, acreage market guide, 4661
  - summer and fall, acreage marketing guide, 7828
- Melsa, James L., digital computer program for analysis and design of state variable feedback systems, 14397
- Melsheimer, E.S.:
  - outlet structure for Ean Galle reservoir, Eau Galle River, Wis., 10960
  - spillway, etc., Holt Lock and Dam, 4744
- Melting, ice, problem with natural convection, study, 17376
- Melton, C. E., exposure of men to intermittent phatic stimulation under simulated IFR conditions, 5802
- Melton, Carlton E., Jr., pilot vision considerations, effect on age on binocular fusion time, 4253
- Member banks, see Federal reserve member banks.

Membranes :

- built-up, thermal-shock resistance, 15584
- commercial potentials of semipermeable membranes, report, 6737
- desalination by reverse osmosis, study, 6448
- for use in desalination by reverse osmosis, permeability requirements, 15331
- inorganic ion-exchange, application to electro-dialysis, 8214
- ion exchange, characteristics, USSR study, 9644
- model, ionic transport in biological systems, studies, 6443
- polymer structure and ionic transport of polystyrenesulfonate model, 9592
- reverse osmosis—
  - membranes containing graphitic oxide, 6444
  - new polymer systems, research and development, 8213
  - ultrathin, fabrication and evaluation, 12641
- transport of electrolytes through membrane systems, 15332

Memoirs of geography (Chinese periodical) : translations, 1312

Memorandums, see names of departments, etc., issuing memorandums.

Memorial services :

- Baldwin, John E., 5967
- Fogarty, John E., 9030
- Herter, Christian A., 16152
- print as House document, report, 12242
- McNamara, Patrick V., 5968
- Thomas, Albert, 246

Memorials, see National monuments and memorials—also names of persons to whom memorials are erected.

Memory :

- effect of actinomycin 2703 on stabilization of conditioned reflexes and transition from short-term to long-term memory, 1338
- human—
  - during natural sleep, input and consolidation of information, USSR book excerpts, 15362
  - information input and fixation during natural sleep, USSR study, 11285
- mechanism of conditioned reflexes and memory, USSR studies, 5014
- mechanism of memory, USSR study, 8268
- pitch, masked DL, 11348

Memory devices :

- circuits, bipolar current driver, 2627
- memory word line configuration allows high storage density, 6780
- MOFSET analog memory circuit achieves long duration signal storage, 6766
- non-destructive fluidic storage control device, research, 11409
- one-count memory circuit prevents machine mode interaction, 6697
- present and future state of the art in guidance computer memories, 18049

Memphis, Tenn. :

- area wage survey, 9746
- employment, administration of justice, and health services, civil rights report, 14851
- Mississippi River and tributaries in district, stages and discharges, 12476
- National Advisory Commission on Rural Poverty, hearings, 17126
- population, special censuses, 16021
- Memphis State University :
  - land transfer to—
    - hearing, 9326
    - law, 12174
    - reports, 7709, 12365

Men :

- adult, body volume, 14780
- and milestones in American agriculture, 2039

Men—Continued

- bio-thermal responses to varied work programs in men kept thermally neutral by water cooled clothing, 8423
- laboratory profile of 283 healthy adult males, 7347
- potential supply and replacement of rural males of labor force age, 1721
- Mena, Cesar A., relief, 9205, 13490, 13593
- Menard County, Tex., soil survey report, 8701
- Mendel, J. M., applications of artificial intelligence techniques to spacecraft control problem, 12854
- Mendel, Joseph J., forestry accomplishments in southeastern Ohio under U.S. agricultural conservation program, 14135
- Mendell, J. S., search for plasma oscillations stimulated by pre-bunched electron beam, etc., 12870
- Mendelssohn, Rudolph C., BLS information system, research statement manual, 15436
- Mendez, Alfredo F., relief, 13620, 17500
- Mendoza, Jose A. G., relief, 270
- Menees, Gene P., pressures and forces on flare-stabilized bodies in air and in mixture of 85-percent CO<sub>2</sub> and 15-percent air, 17011
- Menis, Oscar, analytical coordination chemistry, titrimetry, gravimetry, etc., 14518
- Menominee Range, geology of iron-bearing district, Dickinson County, Mich., and Florence and Marinette Counties, Wis., 6398
- Mental health :
  - amendments of 1967—
    - bearings, 9163
    - law, 12173
    - reports, 9136, 10599, 12366
  - benefits of social security amendments of 1965, 5447
  - community mental health centers, bold new approach, 13070
  - film announcement, 17138
  - community programs, psychiatric facilities, trends in usage, 5465
  - directory, 2828
  - evaluation, bibliographic index, 5421
  - facilities, publications, bibliography, 5459
  - manpower utilization, 2829
  - mental health digest (periodical), 15696
  - mental health manpower, current statistical and activities report, 2829
  - nursing, institutions offering trainee stipends for graduate and undergraduate education, 11760
  - occupational mental health notes, 17154
  - pediatric hospitals, planning for, workshop proceedings, summary, 11758
  - personnel supported under National Institute of Mental Health training grants, current status, 2839
  - program reports, 10054
  - psychologists in mental health, 1964 survey, 5458
  - religion and mental health, 1960-64, bibliography, 11719
  - research grant awards—
    - 1948-63, listing by State, etc., 13083
    - Public Health Service, 1966 funds, 14630
  - research grant program, 1965, descriptive data sourcebook, 15707
  - selected films, guide, 14636
  - State and territorial authorities, conference with Surgeon General, proceedings, 5457
  - State planning, 1966 final reports, 17141
  - State salary ranges, 4898, 11194
  - statistics, current reports, 15697
  - support programs of NIMH, 18174
  - trainee stipends, available, etc., psychiatric nurses, 10058
  - training grant awards, Public Health Service, 1966 funds, 14631
  - training grant program, 1965, statistical sourcebook, 7076
- Mental health centers, see Mental institutions.



Mental illness, troubled employees, recognizing and supervising, guide, 14871

Mental institutions:

- community mental health centers—
- bold new approach, 13070
- film announcement, 17138
- construction act, extension, etc.—
- hearings, 9163
- law, 12173
- reports, 9136, 10599, 12366
- construction, laws compilation, 4547
- consultation and education, 1567
- essential services—
- emergency services, 5429
- inpatient services, 11727
- outpatient services, 11728
- partial hospitalization, 5430
- patients, 1587, 5454-55, 17157
- private—
- mental hospitals and general hospitals with psychiatric facilities, 5455
- mentally retarded patients, 1587
- psychiatric facilities usage for community mental health programs and related research, 5465
- public, mentally retarded patients, 5454, 17157
- State and county mental hospitals—
- patients, 11749
- provisional patient movement and administrative data, 15697

see also Hospitals.

Mental retardation:

- abstracts (periodical), 3550
- amendments of 1967—
- hearing, 17666
- reports, 14971, 16246
- basic introduction and overview of related problems, 1134
- campaign to combat, Nation's progress and remaining great needs, report, 15665
- casefinding, developmental approach, 10403
- chance to help, story of SWEAT, 7060
- conference, Hill-Burton and mental retardation construction authorities with Surgeon General, 1966 proceedings, 15692
- facilities and community mental health centers construction act of 1963, amend, hearing, 17666
- facilities, construction, laws, compilation, 4547
- facilities, extend, etc., laws—
- hearings, 10659, 17666
- reports, 14971, 16246
- Health, Education, and Welfare Department activities, 6414
- mental retardation report (periodical), 3551
- publications, Health, Education, and Welfare Department, 4896

Mental Retardation, President's Committee on, see President's Committee on Mental Retardation.

Mental tests:

- cybernetic testing, 8864
- geographic and astronomic distance responses by Air Force Officers, 4174
- performance tests for operator-skills research, 1821
- psychomotor performance, predicting 4-hour levels from initial half hour, MOL study, 17355

Mentally handicapped, jobs and mentally restored, memo to psychiatrists, 5051

Mentally ill:

- antipsychotic drugs, uses in psychiatry, etc., 2962
- community care, annotated bibliography, 1590
- mentally restored, interviewing guides for specific disabilities, 10944

Mentally ill—Continued

- services of community mental health centers—
- consultation and education, 1567
- emergency services, 5429
- inpatient services, 11727
- outpatient services, 11728
- partial hospitalization, 5430
- State and county mental hospitals, patients, 11749
- VISTA serves mentally handicapped, 6168

Mentally retarded:

- children—
- clinical programs, listing, 5905
- military medical benefits of 1966—
- law, 365
- report, 664
- of deprivation, changing course of familial retardation, 8966
- community facilities, progress report, 14629
- excerpts from comments to President's Committee on Mental Retardation, 7048
- facilities for, hospital and medical facilities series, 14629
- facilities, publications, bibliography, 5459
- Federal employment, 1560
- 2d look, progress report, 16083
- help for the mentally retarded, 13174
- PCMR progress, 2793
- private institution, patients, 1587
- public institutions, patients, 5454, 17157
- spouses and children, of active members of Armed Forces, use of private facilities, report, 14941
- university facilities for diagnosis, treatment, etc., construction, Public Health Service, grants and awards, 11755
- VISTA serves mentally handicapped, 6168
- voluntary admission of patients to institution providing care, education, and treatment, report, 7703

Menus, sample menus and food list for week based on USDA, economy family food plan, 10157

Menus for space flight:

- bite-size feeding to man in oxygen-helium atmosphere, nutritional evaluation, etc., 82-83
- space flight feeding systems, characteristics, concept for improvement, and public health implications, 15898

Menzel, Horst F., parametric study of one mgd brackish water reverse osmosis plant (spiral module concept), 9590

Meramec River:

- basin, engineer report—
- departmental edition, 2213
- document edition, 2009

Mercaptoamines, pharmacology and clinical use, USSR study, 8242

Merchandise, see Commercial products.

Merchandising, contractor operated messing, new procedures adopted to improve management at Kwajalein Missile Test Site, Defense Dept., GAO report, 14155

Merchant, J. H., preserving, disinfecting, and sterilizing, classification definitions, 18119

Merchant, John, oculometer, 14378

Merchant marine:

- act of 1920, amend—
- hearing, 13851
- report, 15107
- act of 1936, amend—
- hearing 7753, 16335
- reports, 15009, 16278

American—

- regulation and promotion (address), 2246
- role of maritime industry in rehabilitation (remarks), 17907
- cargo promotion program (remarks), 6627
- changes in ownership, etc., of vessels, monthly report, 3581



Merchant marine—Continued  
 concern of Government in maritime matters (address), 7971-72  
 damn the torpedoes (remarks), 17908  
 fleet, replacement problems, hearings, 2109  
 graduation exercises at Academy (remarks), 6626  
 history, brief, 11344  
 importer, and U.S. merchant marine, 12786  
 legislation, hearings, 4552  
 maritime matters—  
   deployment of USS Cascade to Malta, agreement, 8745  
   deployment of USS Shenandoah to Malta, agreement, 2904  
   liability during private operation of N.S. Savannah, agreement with—China, Republic, 15799  
   Greece, 11856  
   visit of N.S. Savannah to Hong Kong, agreement, 15795  
 maritime program, proposed, 1968, hearings, 12307  
 maritime safety digest (periodical), shipyards, 3542  
 United States, significant industry (remarks), 16579  
*see also* Sailors—Shipping—Ships.  
 Merchant Marine and Fisheries Committee, House:  
   activities, 89th Congress, 2d session, 6040  
   calendar, 3481  
   committee prints, 4550-51, 6040  
   hearings, 743-746, 4552, 7752-53, 9164, 19663-665, 12307, 15043, 16335-337  
   investigations and studies—  
     authorization, report, 6013  
     expenses, report, 7674  
   reports, 624, 669, 671, 9108, 12250-251, 12253-254, 12256, 12265-266, 15008-9, 16234  
 Merchant Marine Council, proceedings, 3773, 12125  
 Merchant Marine Veterans Association, incorporation, provide, 7646  
 Merchant seamen, *see* Sailors.  
 Merchant ships, *see* Ships.  
 Merchant vessels, *see* Shipbuilding—Ships.  
 Mercury:  
   condensing, flow in 0- and 1-G environments, photographic study, 12939  
   distribution—  
     Cripple Creek district, Colo., 9571  
     Ely mining district, White Pine County, Nev., 9564  
   droplet parameters including effects of gravity, photographic study, 1509  
   electron bombardment ion thruster—  
     accelerator grid durability tests, 14462  
     cathode durability tests, 12960  
     oxide-cathode durability, 6867  
   mineral industry survey, quarterly, 3552  
   nonwetting, condensing flow—  
     in horizontal, sodium-potassium-cooled tubes, heat-transfer, experimental investigation, 11541  
     in sodium-potassium-cooled, tapered tube, pressure characteristics, 1498  
   thermodynamic properties of liquid metal solutions in sodium-mercury system, 9910  
   White Mountain deposits, Kiskokwim River basin, Alaska, investigations, 6677  
 Mercury (planet):  
   manned and unmanned missions to, minimal energy ballistic trajectories, 9886  
 Mercury Project, *see* Project Mercury (man-in-space program).  
 Mercury vapor, detector for geochemical prospecting, 9568  
 Mergers, *see* Business consolidations.  
 Merit systems, State and local systems, extend to additional programs financed by Federal funds, hearings, 12409  
 Merited grade versus merited pay rankings of alrman jobs, 7339

Merriam, Ida C., social security benefits and poverty, 7132  
 Merrill, Carl C., electrorefining yttrium, 15482  
 Merrill, Robert H., three-component borehole deformation gage for determining stress in rock, 15481  
 Merrimac River:  
   basin, engineer report—  
     departmental edition, 4734  
     document edition, 4569  
 Merritt, James H.:  
   inhibition of aromatic L-amino acid decarboxylase by decaborane, 14775  
   reversal of decaborane-mediated norepinephrine depletion by methylene blue, 1730  
 Mertens, Henry W., homogeneous field for light adaptation, 4255  
 Mertens, Ruth A., adaptation to vestibular disorientation, responses to angular acceleration, etc., 10322  
 Mertes, John E., store location, bibliography, 1600  
 Mesa, Ariz., population, special census, 10369  
 Mesa Verde National Park, general information, 5317  
 Mesavage, Clement, random integer dispenser, 14116  
 Mesometeorological research & development prospectus, 9433  
 Mesons, stopping power and range tables, 5192  
 Mesosphere, temperature, pressure, density, and wind measurements, 17012  
 Mesozoic era, pelecypods *Otapiria* Marwick and *Lupherella* Implay in U.S., 8175  
 Message from President's Committee on Mental Retardation, 1560, 3407, 7047-48  
 Message retrieval systems, *see* Information storage and retrieval systems.  
 Messengers, examination announcement, 8995  
 Messerlie, Robert L., variable turbine geometry for small gas turbine engines, 11996  
 Messes:  
   ashore, Navy manual, 9977  
   contractor operated messing, new procedures adopted to improve management at Kwajalein Missile Test Site, Defense Dept., GAO report, 14155  
 Messier, AIC 79 B, lunar chart, 7333  
 Mestas, Jorge, relief, 13747  
 Metabolic rate and longevity of *Drosophila*, 9923, 9925  
 Metabolism:  
   acute starvation body composition changes, 7412  
   acute starvation in normal humans—  
     performance and cardiovascular evaluation function, 121  
     ten days, effects, 122  
   bio-thermal responses to varied work programs in men kept thermally neutral by water cooled clothing, 8423  
   effects of prolonged bed rest, their modification by simulated altitude, 14777  
   energy, of rats born and raised in low-pressure pure oxygen environment, 5709  
   human body, disturbances, role of magnesium, USSR current concepts, 2446  
   metabolic patterns in 7-10-year-old girls in selected Southern States, basic data, 13227  
   microelement, in myopathy patients, USSR study, 2447  
   nitrogen in brain of rats under impulse accelerations, USSR study, 1167  
   nucleic acids, phosphoproteins and phospholipids of liver in experimental atherosclerosis, USSR study, 1275  
   seasonal changes among endocrine-metabolic indices of men residing in subtropical climate, 7358  
 Metal boot permits fabrication of hermetically sealed splices in metal sheathed instrumentation cables, 6700  
 Metal containers, *see* Containers.

**Metal cutting:**  
explosive cutting in simulated space environments, 8466  
tool industry 1961-66, shipments, 15984  
tools, current industrial reports, 12075

**Metal forming:**  
high-energy-rate magnetohydraulic metal forming system, 11463  
hot-drape forming of large torus sections, development of technology, 17963

**Metal halides, vapor pressure,  $\text{SnCl}_2\text{-ZnCl}_2$  binary system, 16864**

**Metal mines and mining:**  
Federal metal and nonmetallic mine safety act, report, 647  
geometry of metal distribution in 5 veins of Fresnillo mine, Zacatecas, Mexico, 9771

**Metal oxides, infrared spectra, 2723**

**Metal plating, see Plating.**

**Metal shapes, see Shapes (metal).**

**Metal sheeting, see Sheet metal.**

**Metal tube can be folded for compact storage, is self-erecting, 1452**

**Metallic films:**  
deposition of thin films by ion plating on surfaces having various configurations, 1510  
thin films, 2d colloquium on, June 27-July 2, 1967, Budapest, Hungary, 12740

**Metallographic holding fixture permits polishing of soft metals on vibratory lapping machine, 5155**

**Metallography, see names of metals.**

**Metallurgical engineers, Soviet, memoirs, 9666**

**Metallurgists, examination announcement, 4388**

**Metallurgy:**  
Communist Chinese abstracts, 3122  
East European scientific abstracts, 3223  
fundamental and applied research and development, 8907  
Hawaiian ferruginous bauxites, metallurgical testing, report, 11374  
metallurgical characteristics of high strength structural materials, 5363, 10014  
metallurgical variables as possible factors controlling radiation sensitivity of structural steels, initial evaluations, 5357  
Miner Bureau, Albany Metallurgy Research Center, quarterly progress reports, 1807, 5795  
patent classification definitions, 8604  
powder, hydrostatic, porous mandrels provide uniform deformation, 12916  
USSR industrial development, translations, 4020  
USSR scientific abstracts, 4030  
zinc, iron contaminated, refining by filtration and centrifugation, 5123

**Metals:**  
analysis procedures, 9985  
composites of porous metal and solid lubricants increase bearing life, 6742  
composition determined by thermoelectric metal comparator, 8387  
consumption and stocks at brass and wire mills, mineral industry survey, monthly, 3062  
copper mosses as indicators of metal concentrations, 4886  
corrosion in tropical environments, 9993  
critical phenomena in ferro- and anti-ferromagnets, 1521  
density measurement in extreme environments, radiation counting technique, 17922  
dissimilar, reliable diffusion bonding ensured by silver plating, 11461  
domestic reserves and potential sources, evaluation, 8340  
equilibrium carbonate-bicarbonate research, USSR study, 1250

**Metals—Continued**  
fatigue zones identified by polarized light photography, 9846  
filtered and unfiltered molten, sampling techniques, 9795  
founding, classification definitions, 11684  
friction properties in single-crystal and polycrystalline form, effect of recrystallization, 15574  
galvanomagnetic effects, exact semiclassical theory, 15581  
glowing metals, theory of surface ionization, 11568  
heat-treatment of metal parts facilitated by sand embedment, 6779  
high temperature coating, USSR study, 9677

**industries—**  
employment and injuries, minerals yearbook chapter, 8338  
review, minerals yearbook chapter, 6689  
technologic trends, minerals yearbook chapter, 5136

**Infrared reflectances at cryogenic temperatures, etc., 6922**

**intergranular metal phase increases thermal shock resistance of ceramic coating, 6811**

**Joining, NASA contributions, 6738**

**liquid—**  
AEC-NASA information meeting, 125  
heat exchanger, thermal conductivity of layer adjacent to wall, USSR study, 11249  
turbulent heat transfer in channels with heat sources in fluid, theoretical investigation, 1499

**liquid-metal flow, heat-transfer analysis in rectangular channels with heat sources in fluid, 6883**

**liquid-metal quality measurement techniques, analysis, 12951**

**metal cutting tool industry, 1961-66, shipments, 15984**

**metal fabricating technology, compilation, 11429**

**metal parts and components, nondestructive testing, handbooks describing eddy current techniques used, announcement, 17985**

**metal treatment processes, USSR study, 12746**

**metallic materials and elements for aerospace vehicle structures, military handbook, 7860**

**change, 9370**

**metallic mineral industries, injury experience, 11355**

**metals and metal products, trade and tariff information, summaries, 18237**

**micrometeorite craters in substrates, observation utilizing electron micrographic replica methods, 9815**

**minerals yearbook, 1965—**  
departmental edition, 9761  
document edition, 9049

**mining, census of mineral industries, 1963 industry statistics, 8934**

**new metals and metal-ceramic composites, 5194**

**noble, in hydrocarbon synthesis, 12827**

**nonferrous metals, identification symbols, Communist China, 6547**

**oxide film on metal substrate reduced to form metal-oxide-metal layer structure, 12841**

**refractory—**  
cold drawing, copper-acrylic enamel serves as lubricant, 5140  
electrodeposition of thick coatings of platinum and palladium from aqueous electrolytes, 16861  
welding, bonding, and sealing by vapor deposition, 14432

**refractory-metal matrices, fiberizing of oxides, 9900**

# INDEX 1967

**Metals—Continued**  
 scrap, temporary suspension of duties continue—  
   law, 12180  
   reports, 7730, 13801  
 soft, polishing on vibratory lapping machine with metallographic holding machine, 5155  
 solubility in liquid zinc, data compiled, 12844  
 trace levels of metallic corrosion determined by emission spectrography, 6850  
*see also* Strategic materials—*also* names of articles manufactured from metal—*also* names of metals.

**Metalwork:**  
 cooling-lubricating fluids, Hungarian research results in developments, 14232  
 high-velocity metalworking, survey, 11428  
 selected metalworking operations, 1963  
 census of manufactures, 4278

**Metalworking machinery:**  
 current industrial reports, 3170  
 Federal item identification guides for supply cataloging, supplements, 3286  
 USSR industrial development, translations, 4021

**Metamorphic rocks, *see* Rocks.**

**Metastable state:**  
 atomic hydrogen, comparison of Gryzinski and Born cross sections, 9874  
 two-phase flow, study, 6449

**Metcalf, Z. P., general catalogue of Homoptera, 12**

**Metcalf, County, Ky., soil survey report, 7135**

**Meteorites, Allegan, Bur-Ghehui and Cynthia, composition, 18089**

**Meteoroids, *see* Meteors.**

**Meteorological satellites, *see* Satellites.**

**Meteorological technicians, examination announcement, 13445**

**Meteorologists:**  
 examination announcement, 4387  
 in service of industry, Hungarian study, 12717

**Meteorologiya i gidrologiya (periodical):**  
 translations, 1278, 1339, 6520, 6564, 9642

**Meteorology:**  
 agricultural meteorology, USSR studies, 4957  
 air pollution study, 11739  
 American Meteorological Society abstracts, 3636  
 Army aviation applicable, technical manual, change, 7390  
 aviation, problems, USSR studies, 1335  
 balance equation, use in tropics, 9429  
 data inputs, synthesis of 15u infrared horizon radiance profiles, 9801  
 data report, meteorological rocket network firings (periodical), 1032, 3190  
 Federal plan for meteorological services and supporting research, 9431  
 horizon radiance profile variations over range of meteorological, geographical, and seasonal conditions, 8418  
 Hungarian Meteorological Society, 39th plenary session, 14220  
 in Socialist countries, Hungary, translations, 15417  
 Mars and Venus, summary of available knowledge, 11410  
 measurements, new methods, USSR studies, 11272  
 mesometeorological research & development prospectus, 9433  
 meteorological data—  
   collection and interpretation, USSR study, 12736  
   tropical Atlantic Ocean, Equalant III, 8569  
 meteorological factors, effects on agriculture, USSR studies, 4938  
 meteorological research with rockets, agreement with Canada, 5548

**Meteorology—Continued**  
 meteorological services of socialist countries of Europe, conference of directors, 1179  
 meteorological servicing of railroad transportation, USSR, 1182  
 Northern Hemisphere, Mar. 1964–Feb. 1965, derivation of data, 8417  
 radar in meteorology, USSR study, 8260  
 records documentation, 6227–28, 13990, 16536  
 satellites—  
   ESSA 3 television cloud photography catalog, 16536  
   Project EOLE research, agreement with France, 2906  
   Soviet scientists, papers, 4986  
   TIROS IX television cloud photography, catalog, 6227  
   TIROS X television cloud photography, catalog, 13990  
 surface observations manual, 5592

**synoptics—**  
 USSR studies, 12692  
 weekly analyses, 5-, 2-, and 0.4-MB, surfaces for 1964, data from Meteorological Rocket Network, 10968

**TIROS VII radiation data synoptic world weather analysis, 12922**

**tropospheric radio duct meteorology at VHF and UHF in theory and as observed on trip around world, 1551**

**USSR—**  
 literature for 1965, list, 1174  
 studies, 6564  
*see also* Hydrometeorology.

**Meteorology and hydrology (USSR periodical):**  
 translations, 1278, 1339, 6520, 6564, 8270, 9642, 12693, 12695, 15369, 16754, 16757

**Meteors:**  
 artificial—  
   spectrograms, photometry, 9902  
   study as ablaters, 8480  
 atmospheric trajectories of 413 precisely reduced photographic meteors, analysis, 18204  
 ballistic limit of double-walled meteoroid bumper systems, 9893  
 ionization probability of iron particles at meteoric velocities, 11406  
 luminous efficiency, laboratory measurement, 11411  
 meteoroid damage to filamentary structures, 16899  
 meteoroid environment, near-earth, 1512  
 meteoroid hazard, impact effects, analytical study, 12855  
 polyethylene terephthalate capacitor-type meteoroid detector, effects of electron irradiation, 1491  
 trajectories and processes, automatic reduction procedure for photographic data, 15510

**Meters, *see* names and types of meters, or substance, etc., measured.**

**Methacrylates, poly (methyl methacrylate), photodegradation in solution, 5358**

**Methanes:**  
 coal dust and methane mixtures, equivalences and lower ignition limits, 9782  
 high purity, calculation of heating value for use as reference material, 2743  
 incandivity of hot gases to methane and coal dust, reduction by sodium chloride and sodium nitrate, 11383  
 Methanol, stress-corrosion cracking of Ti-6Al-4V alloy in methanol, 6900  
 Methemoglobin, production in vitro and in vivo, effect of monomethylhydrazine, 14773  
 Methionine-pyrodioxine and air-sickness, 77  
 Method for predicting frictional loss in metal bellows and flexible hose, 9825D  
 Method of observing and interpreting results of studying fields of radio broadcasting stations, 9625

- Methodological reports, 1900-66, annotated bibliography, 10382  
 Methodology, *see* subjects.  
 Methods engineering, problems of science of production engineering, USSR study, 2432  
 Methods for performance-testing of electromechanical pressure transducers, 6923  
 Methyl bromides:  
     description, etc., technical reference, 9741  
     wheat fumigation, gravity-penetration, single-pass, and closed-recirculation methods, 15861  
 Methyl methacrylate, *see* Methacrylates.  
 Methylamine, 1,4 cyclohexanebis (methylamine), regenerative carbon dioxide absorbent, 8589  
 Methylene blue, reversal of decaborane-mediated norepinephrine depletion in tissue, 1730  
 Methylsiloxane, *see* Siloxanes.  
 Metric system:  
     ASTM metric practice guide, 6915  
     micrometer measures of 256 double stars, 11628  
     micrometer measures of 1164 double stars, 15623  
     practicability of increasing use in United States, Secretary of Commerce to conduct investigation, report, 7668  
     units of weight and measure, definitions and tables of equivalents, 9941  
 Metropolitan areas, *see* Cities and towns.  
 Metropolitan Water District of Southern California:  
     nuclear power desalting project, authorize—  
         hearings, 7749, 7813  
         laws, 375, 10487  
         reports, 675, 6078, 7731, 9125  
 Metzler, William H., farm labor situation in selected States, 7882  
 Mexican-Americans, selected references, 8282  
 Mexico:  
     aerial dispersal of pink bollworm, 5678  
     background notes, 1617  
     caddis flies, 11611  
     Chamizal boundary, construct border highway—  
         law, 499  
         reports, 630, 701, 904  
     Colorado River boundary waters, loan, agreement, 2914  
     east coast, sailing directions, change, 9969  
     economic and social development of border area, joint commission to study, agreement, 7191  
     economic basic data, 14882  
     education, joint commission for review of operation of certain scholarship funds, agreement, 7175  
     fruits, fumigating with ethylene dibromide, manual, 13203  
     geodetic satellite observation station, agreement, 11859  
     health information for travel, 13080  
     livestock and meat industry, 8048  
     mineral industry, minerals yearbook chapter, 12804  
     plant regulatory officials, 5618  
     radio broadcasting, agreement, 11852  
     trade in cotton textiles, agreement, 15777  
     travel to United States, market, survey, 5581  
     west coast, sailing directions, 6998, 15625  
 Mexico, Gulf of:  
     adjacent to Tampa Bay, oceanographic atlas, 12545  
     coast pilot, 17467  
     supplement, 7553  
 Intraoceanic Waterway, Gulf section, New Orleans, La. to Port Arthur, Tex., etc., navigation maps, 8383  
     surface water quality of basins, 8184, 17834  
 Mexico-United States Interparliamentary Group:  
     7th conference, House delegation report, 13704  
     7th meeting, Senate delegation report, 12408  
 Meyer, Hans J., results of ultrasonic testing in practice of machine and boiler construction, etc., 13339  
 Meyer, R. A., status of development of dispersed fuel particles in berillium oxide matrix, 7421  
 Meyers, Gilbert L., testimony, hearings, 16394  
 MHB series, 15697  
 Mi Soon Oh, *see* Oh, Mi Soon.  
 MIADS 2, *see* Map Information Assembly and Display System.  
 Miami, Fla.:  
     area wage survey, 8310  
     port, dedication (remarka), 6259  
 Mica, *see* Muscovite.  
 Mice:  
     acute hydrazine toxicity, toxicologic studies, 4183  
     oxygen uptake, effect of different inert gases and low pressure normoxic environments, 76  
 Michael, Donald N., cybernation and social change, 6596  
 Michaelson, G. S., bacteriology of clean rooms, 17937  
 Michalowska, Sophie, relief, 16174  
 Michalski, Bernadette, mineral industry of Poland, 2563  
 Michaux, C. M.:  
     handbook of physical properties of—  
         Planet Jupiter, 11424  
         Planet Mars, 15516  
 Michigan:  
     apple-packing costs, analysis, 5653  
     area measurement reports, 13359  
     census of agriculture, 1964, State and county statistics, 10390  
     census of manufactures, 1963, area statistics, 158  
     census of mineral industries, 1963, area statistics, 4289  
     climate, 16530  
     climatological data, 3096  
     county business patterns, 1865, 12050  
     electric rate book, 16583  
     hardware face veneer and plywood—  
         distribution and end-uses, 8074  
         mill closures, 2308  
     iron formations, samples and metallurgical evaluation, 6678  
     landings—  
         fish, annual summary, 11073  
         fishery products, 3553  
     Marquette Iron Range—  
         fine-grained hematitic ores flotation procedures, laboratory, etc., development, 14335  
         water resources of area, 14183  
     mineral industry, minerals yearbook chapter, 5117  
     postal map, 15658  
     precipitation data, hourly, 3401  
     southeastern river basins, water resources study, information bulletin, 7929  
     women in upper Peninsula economy, conference, 2977  
 Michigan, Lake:  
     pollution of interstate waters, progress evaluation meeting, 14053  
     small craft, gale and whole gale warning facilities chart, 14724  
     southwestern, water pollution, control, etc., hearing, 738  
     water pollution control, comprehensive plan for basin—  
         Green Bay area, Mich. and Wis., 14050  
         Milwaukee area, Wis., 14051  
 Mickey, W. V.:  
     earth vibrations from nuclear explosion in salt dome, 8911

- Mickey, W. V.—Continued  
 seismic wave propagation, 12118  
 strong-motion and surface accelerations, 5782
- Microanalysis, *see* Chemical analyses—Electron probe microanalysis.
- Microbalance, crystal, measures condensable molecular fluxes, 6744
- Microbes, *see* Micro-organisms.
- Microbiologists:  
 examination announcement, 14856  
 discontinuance notice, 10077  
 FDA microbiologist, career information, 11096
- Microbiology:  
 Clostridium toxins and bacterial aerosols, microbiological studies, 11290  
 examination of space hardware, NASA standard procedures, 15521  
 primary microbiological succession on landslide of Alpine origin at Mount Rainer, 11119
- Microcontaminants, *see* Contaminants.
- Microcurrent generator produces electrical currents accurately between  $10^{-11}$  ampere to  $10^{-4}$  ampere, 8401
- Microelectronics, *see* Electronics.
- Microelement metabolism in myopathy patients, USSR study, 2447
- Microfilms:  
 National Archives publications—  
 list, supplement, 17030  
 pamphlet accompanying, 18060-72  
 newspapers, list, 8329  
 publications of National Historical Publications Commission, catalog, 6936
- Microflora, *see* Bacteria and bacteriology—Intestinal flora—Skin flora.
- Microforms, masters, national register, 2530
- Micrographs, *see* Electron micrographs.
- Micrography of tubular-type battery plates, 8591
- Microlepidoptera:  
 nearctic Gelechiidae, Lita group (Lepidoptera: Gelechiidae), revision, 6949  
 neotropical—  
 Chilean, description by Emilio Blanchard, 6970  
 genus *Lethata* (Lepidoptera: Stenomitridae), studies, 8549  
 review of genus—  
*Loxotoma*, 6969  
*Thioscellis*, 14543  
 revision of genus—  
*Idolotterlia* (Lepidoptera: Tortricidae), 8538  
*Pseudotatteria* (Lepidoptera: Tortricidae), 6944  
 systematic position of 2 taxa erroneously placed in family Stenomitridae (Lepidoptera), 5304
- Micromanipulation tool is easily adapted to many uses, 8446
- Micromanipulators, liquid mercury chamber and microsyringe designs allow more efficiency, 16882
- Micrometeoroids, craters in metal substrates, observation utilizing electron micrographic replica methods, 9815
- Micrometers:  
 automated microsyringe, accurate and reliable device, 14415  
 measures of 256 double stars, 11628  
 measures of 1164 double stars, 15623  
 sonomicrometer, simple portable, 1741
- Microminiaturization, *see* Miniaturization.
- Micronesia, *see* Trust Territory of Pacific Islands.
- Micro-organisms:  
 automatic analysis of microscopic objects, problems, working conference in Pushchino-on-the-Oka, 1219  
 enteric microbial flora of man in oxygen-hellum atmosphere, 79  
 in 2 types of air masses at 690 meters over a city, 66  
 microbial flora surviving irradiation pasteurization of seafoods, effect, 1800
- Micro-organisms—Continued  
 microbial inhibition systems employing radiation (MISER), 8908  
 microbially controlled environment, NASA standards for clean rooms and work stations, 15522  
 micropopulation, relationship to altitude, 1733  
 of land air mass as it traverses ocean, 68 of upper atmosphere, 66-68, 1732-33  
 relationship between frontal activity and micropopulation at altitude, 1732  
 soil, simple, time-saving techniques for studies, 16656
- Microparticle and fiber reinforcement of epoxy resins, 5352
- Microphones, device enables calibration at high sound pressure levels, 16966
- Microscopes, interference microscope, USSR studies on microlocalization of potassium in myofibrils, 14217  
*see also* Electron microscopes.
- Microscopy:  
 anoptical, use for study of morphology of brain tumor cells, USSR study, 12739  
 fluorescence and phase-contrast, for differential cytological diagnosis of precancer and cancer of cervix uteri, USSR study, 12700  
 microscopic studies of tumor viruses and cell structure, USSR, 6562  
 observations of ultraviolet irradiated and weathered softwood surfaces and clear coatings, 14123  
*see also* Electron microscopy—Slides (glass).
- Microvoids in glass-filament-wound structures, their measurement, minimization, and correlation with interlaminar shear strength, 11677
- Microwave communication systems, optical and microwave communications, a comparison, 11529
- Microwave spectroscopy, *see* Spectroscopy.
- Microwaves:  
 attenuation, measurements and standards, 8523  
 errata sheet, 14515  
 azimuth measurements, atmospheric errors, experimental study, 2224  
 liquid hydrogen densitometer utilizes open-ended microwave cavity, 11452  
 microwave and high-frequency bibliography, 17031  
 millimeter wave diode for efficient harmonic power generation, 11483  
 mixer has high conversion efficiency, 6787  
 monitoring of sea water contamination of Navy fuel oils, 15637  
 open-ended circular cylindrical cavities, errata, 11485
- Middle Atlantic States, *see* Atlantic States.
- Middle East, *see* East (Middle East).
- Middle Ordovician period, *see* Ordovician period.
- Middleton, John T.:  
 addresses—  
 Feb. 28, 1967, 8640  
 May 25, 1967, 13072
- Midland, Tex.:  
 area wage survey, 15441  
 brackish well water reverse osmosis tests, 11217  
 District Court, western district, new Midland-Odessa division, create, report, 16235
- Midstate division, *see* Missouri River Basin project.
- Midway Islands, birds and aircraft, 1959-63 investigations, 4809
- Midwest (U.S.):  
 cost of transporting freight by class 1 and 2 motor common carriers, 11233

**Midwest (U.S.)—Continued**  
 dairy farms, commercial, costs and returns, 16488  
 fresh fruit and vegetable unloads in mid-western cities by commodities, States, etc., 7832  
 milk consumption and food service patterns in selected institutions, 11935

**Miesch, A. T.:**  
 error in geochemical data, 8176  
 methods of computation for estimating geochemical abundance, 9573

**Migrant labor:**  
 agricultural, counties having 100 or more, 2811  
 family housing for agricultural workers, guide, 11924  
 problem in U.S., report, 7784  
 study, authorization, report, 6080  
 traveler/el viajero, quarterly newsletter for migrant and seasonal farm workers, 7879

**VISTA serves migrant worker, 6168**  
 vocational rehabilitation services, grants—  
     hearings, 15172, 17600  
     law, 16144  
     reports, 14972, 16366  
     6 steps forward, 17186

**Migration:**  
 beet leafhopper in western U.S., 5686  
 between State economic areas, census of population, 1960, 13402  
 see also Immigration and emigration.

**Migration, European, Intergovernmental Committee for, see Intergovernmental Committee for European Migration.**

**Migratory-bird-hunting stamps:**  
 fees, increase—  
     hearing, 10665  
     reports, 624, 12266  
 information for collectors, 11075

**Migratory birds, see Game and game birds—Water birds.**

**Migratory workers, see Migrant labor.**

**Milan, Italy, U.S. trade center, 12654**

**Milan Compress Co., relief, 328, 563, 839**

**Military Academy, West Point:**  
 catalogue, 1967-68, 17910  
 certain civilian instructors, etc., provide public quarters and utilities without charge—  
     law, 430  
     report, 933  
 official register, 11350  
 permitting persons from countries friendly to U.S. to receive instruction—  
     law, 506  
     report, 692

**Military affairs, 4211**

**Military Affiliate Radio Station (MARS):**  
 general information, 7859

**Military aid:**  
 agreement with—  
     Belgium, 13148  
     Indonesia, 13154  
     Japan, 15778  
     Luxembourg, 11871  
     Norway, 2927  
 collective defense treaties, compilation, 7743  
 foreign assistance act of 1967—  
     analysis, 10653  
     hearings, 9157, 10649, 12299, 13861, 15027  
     Ramseyer rule print, 10652  
     reports, 13837, 14960, 14973  
 foreign assistance act of 1968, background material, fiscal year 1968, compilation, 12297

**Latin America, United States operations, review, 7770**

**military assistance appropriations, 1967, law, 405**

**military assistance appropriations, 1968, hearings, 15014**

**Military aid—Continued**  
 military assistance facts, 16464  
 military assistance program addresses, MILSTRIP, 4679, 6152, 9379, 10900, 12445, 13926, 16472

**Thailand, procurement of locomotives under military assistance program, Defense Department, GAO report, 6380**

**United States investment of military assistance funds in military installations located in France, 9158**

**Military aircraft, see Aircraft.**

**Military Airlift Command:**  
 contracts with, procedure for exemption under renegotiation act of 1951, as amended, 11777

**MAC Iyer (periodical), 3531**

**Military Appeals, Court, see Court of Military Appeals.**

**Military art and science:**  
 advanced naval base defense, 6625  
 automation of troop control, methodological problems, USSR, 8273  
 classification, Library of Congress, 2528  
 counter guerrilla operations, Army field manual, 8881  
 defense traffic management handbook, change, 6142  
 environmental test methods, military standard, 16469  
 helicopterborne operations, Marine Corps manual, 15460  
 infrared technology, handbook, 8584  
 international logistics management, Army field manual, 1762

**logistics—**  
 material development, Army field manual, 1761  
 selective management of secondary items, change, Army field manual, 10263

**Marine Corps, command and staff action, manual, 2533**

**mathematical methods in military affairs, application, USSR book excerpts, 15359**

**methodological problems of military theory and practice, USSR study, 12701**

**river-crossing operations, Army field manual, 4208**

**riverine operations, doctrine, Marine manual, 8331**

**scientific and philosophical application of cybernetics in military science, USSR study, 1197**

**slews of war, Army logistics, 1775-1953, 1397**

**Soviet translations, 3887**

**supply operations manual, defense depot transportation and supply procedures, change, 6145**

**symbols, field manual, 10261**

**tactical decision-making skills, generalized, research, 9982**

**U.S.A. vs. U.S.S.R., changing strategic military balance, 12288**

**Military assistance, see Military aid.**

**Military assistance to civil authorities, 7383**

**Military bases:**  
 Philippines—  
     agreement, 2916  
     relinquishment of certain land areas in Camp John Hay, agreement, 11843

**Redcliff, Newfoundland, continuing use of adjacent land, agreement with Canada, 7155**

**Military camps, see names of camps.**

**Military ceremonies, honors, and salutes:**  
 Air Force manual, 8851  
 Army field manual, 5728

**Military claims, see Claims.**

**Military communications:**  
 DCS equipments/systems performance standardization program, DCA circular, 9360



# INDEX 1967

- Military communications—Continued
  - defense communications system, engineering-installation standards manuals, 4668, 16455
  - field radio relay techniques, manual, 5729
  - signal construction battalion, field manual, 4205
  - signal large headquarters, operation company, field manual, 15937
- Military construction, *see* Installations (military).
- Military depots:
  - defense depot transportation and supply procedures, manual, change, 6145
  - maintenance manual for Army model CH-34 helicopters, 7401
- Military drill:
  - Air Force manual, 8851
  - field manual, 5728
- Military education:
  - audio-visual support center operations, field manual, 4206
  - military schools adopt programmed teaching methods, USSR, 16756
  - National Guard, Army, field training, administrative instructions, 8531
- Military equipment, *see* Military supplies.
- Military establishments, *see* Armed Forces—Defense Department.
- Military facilities, Army National Guard program, operating procedures, 6935
- Military fields, United States, instrument approach procedure charts, dates of latest editions, 3555
- Military handbooks, 980, 7860, 9370-71
- Military history:
  - Marine Corps—
    - historical bibliographies series, 14310
    - historical reference pamphlets, 8332, 12784, 14311, 17904-906
  - USSR memoirs, 6514
- Military History, Office of Chief of, Army, publications, list, 5095
- Military housing, *see* Housing.
- Military impact on American economy, now and after Vietnam, 12187
- Military index:
  - Defense Department, specifications and standards, 13920, 15188
  - supplements, 3412
- Military information:
  - catalog of current information materials, 7374
  - Eastern Europe, translations, 3556
  - route reconnaissance and classification, field manual, 1757
- Military installations, *see* Installations (military).
- Military intelligence:
  - activities, planning and execution, Fleet Marine Force manual, 12781
  - PACAF basic bibliographies, supplement, 7338
  - technical intelligence, Army field manual, 102
- Military justice, *see* Military law.
- Military law:
  - American civilians in Vietnam, application of Uniform Code of Military Justice, 16334
  - military affairs, pamphlet, 4211
  - military justice in Armed services, administration, hearings, 958
  - review, Army Dept. pamphlet, 3557
  - Uniform Code of Military Justice, amend. hearing, 16310
  - United States Code, amend titles 10 and 37, codifying recent laws, etc., law, 432
- Military Manpower Procurement, Civilian Advisory Panel on, *see* Civilian Advisory Panel on Military Manpower Procurement.
- Military operations, *see* Military art and science.
- Military Order of Purple Heart, legislative program, hearings, 9172
- Military pay, *see* Pay, allowances, etc.
- Military personnel, *see* Armed Forces—Army.
- Military pilot training, requirements, and inventories, hearings, 13843
- Military policy, worldwide military commitments, hearings, 944, 10816
- Military posture, hearings, 9149
- Military prisoners, confinement, field manual, 4207
  - see also* Prisoners of war.
- Military publications:
  - administrative guidance for Army National Guard, 11596
  - index of AMC publications and blank forms, 95, 5721, 10251, 13289, 15027
- Military records:
  - correction, remove time limitations and provide time limitations as to payments, report, 2016
  - service records, microcopy, pamphlet to accompany—
    - War of 1812 volunteers from Mississippi Territory, 18070
    - Union Army volunteers from Utah Territory, 18073
- Military research:
  - Army research and development—
    - newsmagazine, 3043
    - personnel, motivational work factors, 4228
  - long-range forecasting and planning, Air Force research program, 17340
  - research in progress, Army Research Office, Durham, 11993
  - skills, generalized, related to tactical decision making, 9982
- Military review (periodical), 3558
- Military roentgenology, 10279
- Military schools, *see* Military education.
- Military science, *see* Military art and science
- Military Sea Transportation Service:
  - sealift magazine, 3854
  - training plan for Naval Reserve officers, qualifications and professional development, 5341
- Military security:
  - espionage and internal security laws, 6934
  - security and foreign relations, regulations, Engineers Corps, 6206
- Military service:
  - after college, opportunity in Coast Guard Officer Candidate School, 217
  - chargeable accessions, profiles, 10296
  - universal military training and service act—
    - amend and extend
      - hearings, 9304, 10638
      - law, 13527
      - reports, 10608, 10744, 12246, 12255
    - youths, results of examination, health of Army, supplement, 8900
- Military services, *see* Armed Forces.
- Military standards, 2154, 3559, 4678, 6151, 7861-62, 9372-78, 10899, 12443-444, 13921-924, 15189-198, 16465-471, 17700
- Military supplies:
  - Air Force—
    - materiel, validity and controls over large volume of unfilled orders, GAO review, 17813
    - procurement instruction, revisions, 3000
  - air transport of supplies and equipment, external-transport procedures, Army technical manual, 8894
  - airdrop of supplies and equipment, Army technical manual—
    - general, types and methods of airdrop, etc., change, 4217
  - rigging—
    - Air Force communications control vehicles, 1771, 7398
    - ammunition for low and high velocity airdrop, 7399, 13303
    - cargo trailers, 8888, 15949
    - CW-BW water pretreatment decontamination set, 10280



**Military supplies—Continued**  
 airdrop of supplies and equipment.  
   technical manual—continued  
 rigging—continued  
   howitzers, 105-mm, 15950  
   POL and rations, 8889  
   trailer-mounted air compressors, 113, 15951  
   typical supply loads, 112, 8887  
   weapon carrier,  $\frac{1}{2}$  ton, 10281  
   weapons systems, M 28 and M 29, change, 15952  
**Armed services procurement regulations,** 3040  
   supplements, 6139, 7846, 16456  
**Army procurement procedure, changes,** 1753, 10254  
**cataloging system, standardization, etc.,**  
   seminannual reports, 6032, 7739, 16313  
   contractors guide, 8880  
**DCS equipments/systems performance**  
   standardization program, 9360  
**Defense Dept.—**  
   specifications and standards, index, 13920, 15188  
   supplement, 3412  
   standardization documents, supply classification listings, 3324, 13919  
   defense disposal manual, changes, 6146, 7853-54, 9268, 10890  
   defense equipment and materiel, disposition, agreement with Brazil, 11854  
   defense procurement circular, 3194  
   defense supply procurement regulation, revision, 3196  
   disposal of U.S. supplies in France, report, 7769  
   DSA responsibilities, 7858  
   equipment, marking and packing, AMC pamphlet, 4192  
   evaluation of contractor's inspection system, 6154  
   Federal manual for supply cataloging format, content, and preparation of Federal supply catalog publications, 12439  
   item identification, cataloging manual, 16458  
**MILSTRIP—**  
   military standard requisitioning and issue procedures—  
     changes, 6153, 15199  
     supplements, 4679, 6152, 9379, 10900, 12445, 13926, 16472  
   military supply and transportation evaluation procedures, 13925  
**Pacific basin market for wood products for**  
   military support activities, 1098  
**parts and equipment, procedures for packaging and packing, military standard,** 16468  
**procurement—**  
   legal service, Army pamphlets, 5737, 7389, 8883-84, 13300, 14799-800  
   small business subcontracting and set-aside programs, report, 4510  
   specifications and standards for petroleum and related products, reference, 1st, 10903  
   research and development of materiel, maintainability engineering, 103  
   standardization policies, procedures, and instructions, manual, 3893  
**supply operations—**  
   defense depot transportation and supply procedures, change, 6145  
   manual, distribution system procedures, changes, 978, 12440  
**United States, disposal in France, report,** 6109  
**utilization manual, 4676**  
   change, 2148  
*see also* Handling equipment.

**Military Traffic Management and Terminal Service:**  
   defense transportation, monograph, Industrial College of Armed Forces, 16731  
   transportation proceedings (periodical), 7407  
**Military training, see** Military education.  
**Military Weather Warning Center, severe-storm forecasting procedures, analysis, notes, 17339**  
**Milk:**  
   bulk and packaged, costs of transporting by truck, 8836  
   city milk markets, price warfare, 2168  
   consumption and food service patterns in selected eastern and midwestern institutions, 11935  
   cows on farms, production per cow, etc., 5683  
   evaporated, condensed, and dry, 3246  
   Federal orders—  
     market statistics—  
       1966 annual summary, 10204  
       summary, monthly, 3295  
     summary of major provisions, 9355  
   fluid—  
     consumer response to various levels of advertising, 17322  
     milk and cream report, 3339  
     packaged, sale in Federal milk order markets, by size and type of container, 7835  
     foam spray-dried whole milk, trial use in institutions, 13946  
   grade A—  
     pasteurized milk and milk products, your best buy, 2812  
     what you should know about it, 5472  
   import act of 1967, hearings, 10801  
   indemnity payments to dairy farmers, extend—  
     law, 16140  
     reports, 14981, 15088  
   instant nonfat dry, how to buy, 15855  
   milkshed sanitation, rating methods, 8639  
   nonfat dry—  
     donated, good choice for thrifty family, food value, use, recipes, 9336  
     instant, good choice for thrifty family, description and use, 9334  
   ordinance, recommendations, 1965 grade A pasteurized milk, 14624  
   pasteurization, facts, 14746  
   prices, economic report, 4539  
   procurement by Defense Dept., price adjustments, amend U.S. Code—  
     law, 410  
     reports, 689, 907  
   production—  
     balance between supply and demand (address), 4101  
     disposition and income, 8847, 10109  
     monthly reports, 1643, 2940, 3560, 7199, 8756, 11880, 15806  
     1966, statistical summary, 7200  
   proteins, dye-binding evaluation method, 4152  
   special school program for children, extend—  
     closing nutrition gap, 15871  
     law, 373  
     report, 663  
   white magic, guide for program aides in home economics, 47  
**Milking, cows, time and travel required, effect of layout, equipment, and routine,** 4151  
**Milking Shorthorn cattle, see** Cattle.  
**Miller, Charles D., performance investigation of 8-inch hubless pump inducer in water and liquid nitrogen, 6860**  
**Miller, D. R. BWR core-conceptual design,** 7423  
**Miller, Dale C., child protection under Federal hazardous substances act, 12552**

# INDEX 1967

- Miller, David H., transport of intercepted snow from trees during snow storms, 8114
- Miller, G. Kimball, Jr., manual abort guidance technique with concentric-flight-plan rendezvous, 14481
- Miller, Gulon, enrollment of Eastern Cherokee, records, pamphlet accompany microcopy, 18072
- Miller, Herman P.:  
income distribution in United States, 1883  
present value of estimated lifetime earnings, 13401
- Miller, J. R., opportunities for increasing markets and employment in shoe industry, 2161
- Miller, John E., correction for nonuniformity of bore of capillary tube viscosimeter, 14337
- Miller, John V., estimated thermal conductivity of cermet fuel materials for nuclear reactor application, 8502
- Miller, Louis T., relief, 849
- Miller, M. L., parametric study of advanced multistage axial-flow compressors, 11419
- Miller, Paul A., university perspective on manpower, 15435
- Miller, Robert C., seven-storm forecasting procedures of Military Weather Warning Center, 17339
- Miller, Robert, E.:  
predicting 1st year achievement of Air Force Academy cadets, class of 1967, 17343  
relationship of AFOQT, Air Force officer qualifying test, scores to measures of success in undergraduate pilot and navigator training, 13267
- Miller, Robert H., Crotalaria seed morphology, etc., 17334
- Miller, Robert L. and wife, relief, 804, 7645
- Miller, Vernon R., tests for tin-lead solders and solder joints, 11388
- Miller Freeman (fishery vessel):  
description, etc., 11076
- Millholland, James, and early railroad engineering, 11602
- Millimeter-wave generation with electron beam devices, etc., 6854
- Millimeter waves, see Microwaves.
- Milling (metallurgy):  
copper and copper base alloy mill products, tolerances, Federal standards 2268, 16601
- Milling machines, numerically controlled, computer used to program, 2662
- Millions of ballots for industrial democracy, 6938
- Mills, Thomas J., prospective manpower situation for science and engineering staff in universities and colleges, 14563
- Mills, see Cotton mills—Flour mills—Plywood mills—Sawmills—Steel mills—Textile mills—Veneer mills.
- Millwork, Federal Item Identification guides for supply cataloging, supplements, 3288
- MILSTAMP [military standard transportation and movement procedures] training program implementation of DOD regulation 4500.32-R, 1763
- MILSTEP, military supply and transportation evaluation procedures, 13925
- MILSTRIP:  
military assistance program addresses, 4679, 6152, 10900, 12445, 13926, 16472  
military standard requisitioning & issue procedures, 6153, 15199  
requisition fund codes, 16473
- Milton, D. I., geology of Arabian Peninsula, 6406
- Milwaukee, Wis.:  
area wage survey, 14296  
water pollution control, comprehensive plan for area, 14051
- Milwaukee River, water pollution, control, etc., hearing, 738
- Minckler, Leon S., establishing mixtures of reedcedar in poor oak-hickory forests, 8073
- Mine accidents:  
coal mines, injuries, monthly report, 3098  
fatal accidents with front-end loaders, analysis, 16856
- Mine drainage:  
acid mine drainage, water pollution control demonstration projects, hearings, 16435  
management, pollution control costs, handbook, 12539  
neutralization of mine water, research, 9792
- Mine explosions, equivalences and lower ignition limits of coal dust and methane mixtures, 9782
- Mine fires, control project in Appalachia, story about fighting fires in abandoned coal workings, 6691
- Mine gases:  
incendiability of hot gases to methane and coal dust, reduction by sodium chloride and sodium nitrate, 11383  
minimum ignition energy and quenching distance in gaseous mixtures, techniques and apparatus, 15475
- Mine pillars:  
coal—  
burst-prone, stress distributions, 12824  
relative pressure changes during extraction, 12829
- Mine props, lightweight recoverable hydraulic, design and development, 17913
- Mine safety, see Safety of life.
- Mine water, see Mine drainage—Water.
- Mineral-fuels, see Fuel.
- Mineral industries, see Minerals.
- Mineral lands:  
conveyance of—  
mineral interests of U.S. located near Orangeburg, S.C., to Allen E. Dominkick, 334  
mineral rights of U.S. in San Bernardino County, Calif., to Needles, Calif., report, 15003  
oil and gas lease—  
New Mexico, reinstate, 530, 10704, 12324  
Wyoming, reinstate, reports, 10738, 10740  
relief for occupants of certain unpatented mining claims, extend act—  
law, 17556  
report, 16289
- Mineral Wells, Tex., climatic summaries of resort areas, 12478
- Mineralogy, see Meteorites.
- Minerals:  
aggregate industry and urbanization—  
Denver, Colo., area, 6637  
Tucson, Ariz., area, 5105  
census publications, price list, 7056  
concentration, influence of liquid cyclone variables, study, 12822  
contributions to geochemical prospecting (series), 4886  
data, linear discriminant analysis, 6680  
deposits, reserves, computing, errata, 2538  
heavy, Umat-Maybe Creek region, 8159
- Industries—  
area reports, annual, 3038  
census, 1963—  
advance reports, 3087  
area statistics, 4280-4300, 5821-46, 7463-64  
area statistics, announcement and order forms, 5808, 13363  
area statistics, bound volume, 12038  
employment and related statistics, 7469  
industry statistics, 166-167, 1854, 5847, 7465, 8934, 10342  
industry statistics, bound volume, 13364  
announcement and order form, 13363

Minerals—Continued  
 industries—continued  
 census, 1963—continued  
     final subject statistics, announce-  
     ment and order form, 4263  
     fuels, electric energy, and selected  
     supplies used, 7470  
     power equipment used, subject sta-  
     tistics, 7471  
     publication program, 5819  
     size of establishments, 7467  
     subject statistics, 5848, 7466-71, 8935  
     general summary, 7466  
     type of operation, subject statistics,  
     8935  
     type of organization, 7468  
     employment and injuries, minerals  
     yearbook chapter, 2537  
     enterprise statistics, 1963, preliminary  
     reports, 3241  
     injury experience, employment, and  
     worktime, 8342, 15465  
     metallic, injury experience, 11355  
     Montana water requirements and uses,  
     2539  
     review, minerals, yearbook chapter,  
     5132, 6689  
     water use, census of mineral industries,  
     5848  
     Wyoming water requirements and uses,  
     12796  
 Industry, minerals yearbook chapter—  
     Afghanistan, 8642  
     Africa, 12805  
         regional review, 12812  
     Alabama, 2548  
     Alaska, 5108  
     Algeria, 2549  
     Angola, Mozambique, and Portuguese  
     Guinea, 9758  
     Argentina, 15466  
     Arizona, 6643  
     Arkansas, 6644  
     Australia, 5109  
     Austria, 8343  
     Basutoland, Bechuanaland, and Swazi-  
     land, 11357  
     Belgium, 15467  
     Bolivia, 12798  
     Brazil, 16857  
     British Guiana, 14330  
     British Honduras, Costa Rica, El Sal-  
     vador, Guatemala, Honduras, Nic-  
     ragua, and Panama, 14331  
     British Solomon Islands, Christmas  
     Island, Fiji Islands, Makatea, Nauru  
     and Ocean Islands, New Caledonia,  
     New Hebrides, and Papua and New  
     Guinea, 9759  
     Bulgaria, 6645  
     Burma, 2550  
     California, 6646  
     Cambodia, Hong Kong, Laos, North  
     Viet-Nam, South Viet-Nam, 11358-359  
     Canada, 6647  
     Caribbean Islands, 14332  
     Ceylon, 8344  
     Chile, 12799  
     China, mainland, 5115  
     Colombia, 11360  
     Colorado, 8345  
     Congo (Leopoldville), 12800  
     Cyprus, 6648  
     Czechoslovakia, 2551  
     Denmark, 8346  
     East Germany, 8347  
     Ecuador, French Guiana, Paraguay, and  
     Uruguay, 11361  
     Ethiopia, 6649  
     Europe, regional review, 15473  
     Far East, regional review, 11367  
     Florida, 5110  
     France, 16858  
     Gabon, 8348  
     Georgia, 2552

Minerals—Continued  
 industry, minerals yearbook  
 chapter—continued  
     Germany, Federal Republic, 12801  
     Ghana, 8349  
     Greece, 15468  
     Greenland, 8350  
     Guinea, 8351  
     Hawaii, 2553  
     Hungary, 5111  
     Idaho, 1400  
     Illinois, 6650  
     India, 8352  
     Indiana, 6651  
     Indonesia, 6652  
     Iowa, 2554  
     Iran, 8353  
     Ireland, 12802  
     Italy, 14333  
     Ivory Coast, 8354  
     Japan, 12803  
     Kansas, 6653  
     Kentucky, 2555  
     Kenya, Tanzania, and Uganda, 8355  
     Kuwait, 2556, 8356  
     Kuwait-Saudi Arabia Neutral Zone,  
     5112  
     Latin America, regional review, 12813  
     Lebanon, 5113  
     Liberia, 6654  
     Libya, 6655  
     Louisiana, 5114  
     Luxembourg, 6656  
     Malagasy Republic, 6657  
     Malaysia and Singapore, 6658  
     Maryland, 5116  
     Mexico, 12804  
     Michigan, 5117  
     Minnesota, 2557  
     Mississippi, 2558  
     Missouri, 6659  
     Montana, 6660  
     Morocco, 8357  
     Near East, regional review, 6672  
     Nebraska, 2559  
     Netherlands, 11362  
     Nevada, 8358  
     New Hampshire, 2560  
     New Jersey, 1401  
     New Mexico, 6661  
     New York State, 5118  
     New Zealand, 8359  
     Nigeria, 6662  
     North America, regional review, 11368  
     North Dakota, 8360  
     North Carolina, 5119  
     North Korea, 1402  
     Norway, 11363  
     Ohio, 6663  
     Oklahoma, 6664  
     Oregon, 2561  
     Pakistan, 8361  
     Pennsylvania, 8362  
     Peru, 11364  
     Philippines, 2562  
     Poland, 2569  
     Portugal, 11365  
     Republic of South Africa, 9760  
     Rhode Island, 1403  
     Rhodesia (Southern Rhodesia), Zambia,  
     and Malawi, 12806  
     Rumania, 6665  
     Senegal, 8363  
     Sierra Leone, 2564  
     South Asia, regional review, 8373  
     South Carolina, 1404  
     South Dakota, 5120  
     South Pacific, regional review, 6673  
     South-West Africa, 8364  
     Spain, 12807  
     Sudan, 8365  
     Sri Lanka, 8366  
     Sweden, 15469  
     Switzerland, 8367  
     Tennessee, 6666  
     Texas, 6667  
     Thailand, 8368

# INDEX 1967

## Minerals—Continued

industry, minerals yearbook chapter—continued  
Tunisia, 6668  
Turkey, 8369  
U.S.S.R., 15470  
United Kingdom, 12808  
Utah, 5121  
Venezuela, 12809  
Vermont, 1405  
Virginia, 6669  
Washington State, 2565  
West Virginia, 6670  
Wisconsin, 6671  
Wyoming, 2566  
Yugoslavia, 16859  
mineral content in municipal water supplies, economic effects, 14199  
mineral-deposit and mine sample and assay data analyzing, statistical techniques, 14322  
mineral nutrient requirements of *Chlorella sorokiniana* in continuous pure culture, 14779  
mineral trade notes, monthly inventory, 3563  
mineralogy of tungsten deposits, 1st all-Union conference, 1157  
minerals and primary products, Federal item identification guides for supply cataloging, supplements, 3291  
minerals and related substances X-ray crystallographic data, molar volumes, and densities, 17818  
minerals in world economy, minerals yearbook chapter, 15471  
mining and mineral operations in U.S. visitor's guide, 8370  
nickel- and cobalt-bearing, magnetic susceptibility, 17911  
nonmetallic, except fuels, mining, 1963 census of mineral industries, 10342  
production, statistical summary, minerals yearbook chapter, 8379  
prospecting, suggestions for prospectors, techniques, etc., 9575  
publications, price list, 2803  
resources—  
Alaska, print additional copies, report, 13651  
Bosque del Apache National Wildlife Refuge, 17821  
briefing, hearings, 10655  
California, 2124  
code of Federal regulations, 6284  
Desolation primitive area, Sierra Nevada, Calif., 11169  
Devil Canyon-Bear Canyon, primitive area, Calif., 8155  
High Uintas primitive area, Utah, 12598  
Missouri, 15055  
print report as Senate document, report, 9276  
Mount Baldy primitive area, Ariz., 8156  
Pine Mountain primitive area, Ariz., 11166  
Salt Creek area, Bitter Lake National Wildlife Refuge, 17821  
Ventana primitive area, Monterey County, Calif., 12604  
safety officer, examination announcement, 4392  
silicate, far infrared spectra, study, 9841  
South America, fertilizer minerals, sources, 1110  
supplements, FDA fact sheet, 6359  
USSR industrial development, translations, 4020  
yearbook, 1964 area reports, international—  
departmental edition, 1406  
document edition, 515  
yearbook, 1965—  
area reports, domestic—  
departmental edition, 12810  
document edition, 12194

## Minerals—Continued

yearbook, 1965—continued  
metals and minerals except fuels—  
departmental edition, 9761  
document edition, 9049  
mineral fuels—  
departmental edition, 11366  
document edition, 10495  
see also Strategic materials—also names of minerals.  
Minerals Exploration Office, annual reports, 8335, 16847  
Mines and mining:  
assigned area of influence for assay obtained in mine sampling, 12815  
deep mine stress determinations using flatjack and borehole deformation methods, 6676  
domestic industry, stockpile program and its relationship, hearings, 2051  
exploration expenditures in case of mining, income tax deductions, report, 650  
flexible liners for underground support, 5128  
ILO—  
convention concerning employment underground of young persons in mines, medical examination for fitness, 16160  
recommendations concerning conditions of employment of young persons in underground mines, 16160  
metal mining, census of mineral industries, 1963 industry statistics, 8934  
mine and mineral-deposit sample and assay data analyzing, statistical techniques, 14322  
mine superstructures and surface equipment, USSR study, 1249  
minerals, nonmetallics, except fuels, 1963 census of mineral industries, 10342  
mining—  
and mineral operations in U.S., visitor's guide, 8370  
industries, 1958, interindustry structure, 11356  
must it destroy our land? announcement and order form for conservation publication, 14614  
phosphate, pneumatic vibrating-blade planer test operation, research progress report, 1411  
production-scheduling model and critical path analysis of development work for long-range planning, 9786  
prospector, cowhand, and sodbuster, historic places associated with mining, etc., in trans-Mississippi West frontier, 13008  
publications, price list, 2803  
scientific labor organization proves effective at Siberian mining institute, 14263  
stresses and displacements surrounding open pit in gravity-loaded rock, 14356  
surface mining and our environment, special report, 14201  
see also Coal mines and mining—Hydraulic mine filling—Mine drainage—also names of metals and minerals mined.  
Mines Bureau:  
Albany Metallurgy Research Center, metallurgical progress reports, 1807, 5795  
appropriations, 1968, hearings, 7734  
area report, annual, 3038  
bulletins, 6631-32, 8337, 11351, 12795, 14322-323, 16848-850  
coal-fired gas turbine research project, test of new turbine blade design, 9772  
information circulars, 2538-43, 1398, 5104-5, 6635-40, 8339-41, 9754-56, 11352-356, 12796-797, 14324-329, 15464, 16853-856, 17911-912  
press releases, 3744  
programs, briefing, hearings, 10655  
publications—  
and articles, 1965, list, 2547  
monthly list, 3622

**Mines Bureau—Continued**  
 report of investigations, 1408-14, 2570-88, 5124-31, 6674-88, 8374-78, 9763-92, 11369-389, 12814-831, 14334-361, 15474-483, 16861-867, 17913-916

**Mingo County, W. Va., coal, carbonizing properties, 5130**

**Miniature capacitive accelerometer is especially applicable to telemetry, 1470**

**Miniature telemetry system accurately measures pressure, 6786**

**Miniaturization:**  
 double-focusing mass spectrometer, evaluation, 2599  
 microminiature dc signal-conditioning amplifier, development, 14483  
 microminiature thermocouple monitors own installation, 1460  
 personal communication system combines high performance with miniaturization, 11456  
 piezoelectric triaxial accelerometer measures cranial accelerations, 2659  
 slip rings, environmental study, 14419

**Minimax attitude control of aeroballistic launch vehicles, errata, 1419**

**Minimum-impulse time-free transfer between elliptic orbits, 1432**

**Minimum principle in calculus of variations, 4995**

**Minimum wage, see Wages.**

**Mining, see Mines and mining.**

**Mining claims, see Mineral lands.**

**Mining engineering:**  
 flexible liners for underground support, 5128  
 stress ellipsoid determination in rock-burst-prone area, 14351

**Mining machinery:**  
 and equipment, current industrial reports, 4331, 15999  
 equipment, Federal item identification guides for supply cataloging, supplements, 3285  
 nonuniform radial loads applied to boundary of circular hole in infinite plate, 17914  
 pneumatic transportation of solids, symposium, 2542

**Ministers of religion, see Clergy.**

**Minkin, Herbert L., performance of turbine-type flowmeters in liquid hydrogen, 2728**

**Minks, extinct sea mink, with taxonomic notes, 6964**

**Miniutti, Victor P., microscopic observations of ultraviolet irradiated and weathered softwood surfaces and clear coatings, 14123**

**Minneapolis, Minn., area wage survey, 11313**

**Minnesota:**  
 access highway through Manitoba, Canada, to northwest angle of Minnesota, construct, agreement, report, 2096  
 area measurement report, 13360  
 census of agriculture, 1964, State and county statistics, 10391  
 census of manufactures, 1963, area statistics, 159  
 census of mineral industries, 1963, area statistics, 5831  
 climatological data, 3096  
 county business patterns, 172, 12051  
 dairy manufacturing firms, utilization of plant capacity, 12454  
 mineral industry, minerals yearbook chapter, 2557  
 national forests, private pleasure boating, 8063  
 northern, lumber production declines, 14100  
 pollution of interstate and intrastate waters of upper Mississippi River and its tributaries, conference, proceedings, 14052, 15253  
 postal map, 15659  
 precipitation data, hourly, 3401

**Minnesota Chippewa Tribe, see Chippewa Indians.**

**Minor, J. E., investigation of low-level radioactive waste containers in accident environment, etc., 8909**

**Minor elements, see Chemical elements.**

**Minorities:**  
 books for schools and treatment of, hearings, 2045  
 colored, and present British policies, 9747  
 employment in Federal Government, 1930  
 minority groups in Republic of Vietnam, ethnographic study series, 5735

**Minors, see Children.**

**Minot, N. Dak., Souris River Valley, geohydrology of area, 14184**

**Minsk, L. C., prevention of accumulation of snow and ice on open mesh metal panels, 8879**

**Mint (plant):**  
 mint for oil, acreage, production, etc., 1959-65, revised estimates, 14762

**Mint Bureau:**  
 annual report, 8381  
 operating fund, financing, hearing, 10818

**Mints:**  
 mint marks on coins, permit—hearing, 10817  
 law, 12171  
 reports, 10602, 10765, 12248

**Mintz, Milton S., transport of electrolytes through membrane systems, 15332**

**Minute Man National Historical Park, general information, 17053**

**Minutillo, Rose, relief, 7656**

**Miocene period, see Calvert Formation.**

**Miquel Franca, Jorge L., relief, 267, 581**

**Miranda y Montegudo, Maria Y. R., relief, 9199, 12144, 12212**

**Mirex, use in control of Texas leaf-cutting ants, 2325**

**Miridae, see Hesperolabops.**

**Mirrors:**  
 rearview, for automotive vehicles, Federal standard, 6325  
 transmission of light through plane water surface and its return by submerged retroreflector, 13031

**Miscellaneous collection series, see Smithsonian miscellaneous collection.**

**Miscellaneous papers, see names of departments, etc., issuing papers.**

**Miscellaneous publications, see names of departments, etc., issuing publications.**

**Missile bases, Arkansas Titao II missile site disaster, survivor benefits payable, actuarial analysis, 7115**

**Missiles:**  
 antiballistic (ABM), status—  
     policy decisions, cost estimates, etc., staff memorandum, 7746  
     technical development (statement), 7808  
 antimissile defense, USSR study, 9676  
 ballistic reentry trajectories at velocity of 50,000 f.p.s., 12932  
 dynamic characteristics of variable-mass slender elastic body under high accelerations, 5188  
 fuel, Air Force Dept. procurement from sole-source supplier, GAO review, 9551  
 guide, Federal item identification guides for supply cataloging, supplements, 3293  
 guided, preferred items list, electronic and electromechanical, military standard, 7862  
 military procurement—  
     appropriations, 1967, report, 2014  
     appropriations, 1967, supplemental—  
         hearings, 6031, 7799  
         law, 9035  
         reports, 6087, 7665, 7667, 7673  
     appropriations, 1968—  
         hearings, 7797, 9149  
         law, 12164  
         reports, 7786, 10570, 10575, 10611  
     publications, price list, 5419

# INDEX 1967

## Missiles—Continued

- structural response with different forms of damping, analysis, 14450
- structures and power sources surface-to-air missile series, engineering design handbook, 15928
- Titan IIIC, matrix-Holzer analyses for fully-coupled vibrations of clustered launch-vehicle configurations, 5158
- U.S. sites, work stoppages, analysis, 5403, 18141
- winged model, water-landing characteristics, 9872
- Mississippi:
  - area measurement reports, 4267
  - bromide and iodide in oilfield brines in some Tertiary and Cretaceous formations, 11385
  - census of agriculture, 1964, State and county statistics, 13407
  - census of manufactures, 1963, area statistics, 1842
  - census of mineral industries, 1963, area statistics, 4290
  - climatological data, 3096
  - coast, hurricane survey, engineer report—departmental edition, 10957
  - document edition, 10506
  - congressional districts, 90th Congress, 183
  - cotton, spinning quality as affected by gin cleaning, etc., 1965-66 season, 5647
  - county business patterns, 1866, 12052
  - District Court, eastern division of northern district, terms to be held at Ackerman—
    - law, 18138
    - report, 12379
  - landings, fish and shelfish, 3564, 18615
  - mineral industry, minerals yearbook chapter, 2558
  - post study, wood preservatives, comparison, 1967 progress report, 11110
  - postal map, 15660
  - precipitation data, hourly, 3401
  - salt domes, survey, 2541
  - soil survey laboratory data and descriptions, 13124
  - statehood, commemorative stamp (poster), 18137
  - war on poverty, examination, hearings, 12420
- Mississippi River and Valley:
  - bridge at Rock Island, Ill. to Davenport, Iowa, reconstruction, etc., authorize construction of additional span, report, 2095
  - daily Mississippi River stage and forecast bulletin, 3177
  - daily Missouri-Mississippi River bulletin, 3177
  - fisheries, 1965, annual summary, 9513
  - flood control in lower valley, 8382
  - flood protection to agricultural areas above Ohio River, engineers report—
    - departmental edition, 4732
    - document edition, 4472
  - Fort Madison, Iowa navigation, project, engineer report—
    - departmental edition, 4733
    - document edition, 4470
  - Gulf outlet, New Orleans, La. to Gulf of Mexico, navigation maps, 8383
  - light list and other marine aids, 9004
  - Mississippi River and tributaries, stages and discharges in—
    - Memphis district, 12476
    - St. Louis district, 13982
    - Vicksburg district, 12477
  - soil, sediment, and water, monitoring agricultural pesticide residues, preliminary report of studies, 4086
  - surface water quality, upper basin, 2375
  - transportation lines on river system, 2219

## Mississippi River and Valley—Continued

- upper—
  - and its tributaries, pollution of interstate and intrastate waters, conference, proceedings, 14052, 15253
  - zinc-lead district, aeromagnetic and tectonic analysis, 4888
  - zinc-lead district, geology (series), 6388
- Mississippi River Commission:
  - member, nomination of Willard Roper, hearing, 16433
  - nominations, hearing, 12427
- Mississippi Territory, service records, microcopy, pamphlet to accompany War of 1812 volunteers, 18070
- Mississippi period, Big Snowy and Amsden groups and Mississippian-Pennsylvanian boundary in Montana, 15309
- Missouri:
  - air pollution study, 5438-42
  - area measurement reports, 17421
  - census of agriculture, 1964, State and county statistics, 13404
  - census of business, 1963, retail trade, area statistics, errata, 10340
  - census of manufactures, 1963, area statistics, 1843
  - census of mineral industries, 1963, area statistics, 4291
  - climatological data, 3096
  - cordwood yields from thinnings in young oak stands in Missouri Ozarks, 2307
  - county business patterns, 4312, 12053, 14820
  - electric rate book, 12510
  - highway safety study, Operation 66, joint engineering-enforcement project report, 1594
  - mineral and water resources, 15055
  - print report as Senate document, report, 9276
  - mineral industry, minerals yearbook chapter, 6659
  - Ozarks, shortleaf pine seedling inventory, methods on broadcast-seeded areas, 8072
  - precipitation data, hourly, 3401
  - shortleaf pine, stand volume equations, 14094
  - southwest, establishing grass range in Ozarks, 14092
  - water resources development projects, 15055
- Missouri Basin Inter-Agency Committee:
  - annual programming report, 1967-69 fiscal years, 16868
  - annual report on progress, 5137
- minutes—
  - 146th meeting, 5138
  - 147th meeting, 14362
  - 148th meeting, 16869
  - 149th meeting, 16870
- Missouri River and Valley:
  - daily Missouri-Mississippi River bulletin, 3177
  - floods, magnitude and frequency, 1129
  - surface water quality, 2375
- Missouri River Basin, progress, quarterly report, 3777
- Missouri River Basin project:
  - Almena unit, revised procedures for determining irrigation benefits, GAO review, 12590
  - appropriations, authorization, increase—
    - law, 17543
    - reports, 10739, 15004
  - Nebraska mid-state division, construct, operate, etc., reports, 13671, 14955
  - Oahe unit, James division, S. Dak., construction bearings, 17656
  - Yellowtail unit, general information, 2848
- Mistletoe:
  - Arceuthobium, seed collection and storage, 9541



- Mistletoe**—Continued  
**dwarfmistletoe**—  
 parasitizing true firs in California, biology and pathology, 5685  
 spread into Jeffrey pine plantation, trees infected after 22 years, 16658
- Mitchell, George W.:**  
 remarks—  
 Nov. 11, 1966, 1068  
 Nov. 30, 1966, 2261  
 Dec. 28, 1966, 4786  
 Mar. 8, 1967, 8297  
 Apr. 21, 1967, 9494  
 May 13, 1967, 11052  
 Aug. 21, 1967, 15248  
 Sept. 23, 1967, 16593
- Mitchell, Lloyd V.,** radiolonde dew-point accuracies 40° C to -40° C, 15884
- Mitchell, Robert T.,** protecting corn from blackbirds, 16637
- Mitchell, Russel G.:**  
 infestation characteristics of balsam woolly aphid in Pacific Northwest, 4852  
 translocation of dye in grand and anubis pine fir infested by balsam woolly aphid, 11116
- Mitchell, Vernice C.,** consumer purchases of citrus fruit, juices, drinks, and other products, 3145
- Mitchell, William L.:**  
 dizziness and vertigo in aviators, 17359  
 incidence of ear, nose, and throat diseases in 400 space and test pilot candidates, 14781
- Mitchell sandstone,** see Sandstone.
- Mitosis,** see Karyokinesis.
- Mittens,** current industrial reports, 4328, 13392
- Mixer conditions** temperature of liquified gas streams, 5219
- Mixers (communications):**  
 compact microwave mixer has high conversion efficiency, 6787
- Mizen, Mamie L.,** Federal facilities for Indians, tribal relations with Federal Government, reports, 10804-805
- Miyachi, David,** application of radiation-pasteurization processes to Pacific crab and boulder, 12348
- Milinko, Aranka,** relief, 10550
- Moab, Utah,** regional geophysical investigations, 2368
- Moab mining district,** uranium deposits, 6391
- Moapa Valley Water Company,** relief, 250
- Moberg, M. L.:**  
 trace contaminants—  
 contained in samples from closed environment at 258 mm. Hg., 10234  
 in closed ecologic atmospheres, 7350
- Mobile homes,** see Trailers.
- Mobile trade fairs,** guide to prospective operators, 4922
- Mobility:**  
 environment survey in El Real, Darien Province, Panama, 8895  
 integrated mobility measurement and notation system, 11451  
 labor, selected references, 15432  
 see also Geographic mobility—Mechanical mobility.
- Mobilization,** see National defense—Production.
- Mobley, Hubert L.,** soil survey of Comanche County, Okla., 15746
- Modal combination** computer program for dynamic analysis of structures, 15527
- Modal split,** documentation of 9 methods for estimating transit usage, 7100
- Model makers,** non-metal, examination announcement, amdt., 203
- Model Reporting Area for Blindness Statistics:**  
 conference proceedings, 11751  
 statistical report, 11742
- Modeling:**  
 olfactory sense simulation, USSR studies, 1326  
 selecting a harem and other applications of policy capturing model, 15893
- Models (structural):**  
 scale effect on structural-joint damping, 18025  
 scaled, application of distorted models in developing, 16956
- Modoc National Wildlife Refuge:**  
 birds, list, 11082  
 general information, 1079
- Modulators:**  
 double emitter suppressed carrier, design using commercially available components, 9856  
 electro-optic light, 1489  
 light-intensity, withstands high heat fluxes, 2657  
 single-sideband, accurately reproduces phase information in 2-Mc signals, 1446  
 wideband, high efficiency optical modulator requires less than 10 watt drive power, 16944  
 see also Laser modulators—Light modulators—Pulse modulators.
- Module (measurement unit):**  
 Apollo command module, stability characteristics, 8500
- Modules:**  
 lunar module rendezvous, sextant navigation measurements, analysis, 6903  
 pilot controlled docking simulation of Apollo command and service module with lunar module, 2689  
 see also Electronic modules.
- Moe, Lyle E.,** Saudi Arabia, supply and demand projections for farm products to 1975, with implications for U.S. exports, 7886
- Moede, Herbert H.,** milk consumption and food service patterns in selected eastern and midwestern institutions, 11935
- Moehring, David M.:**  
 converting pin oak flat to pine, 14121  
 diameter growth and foliar nitrogen in fertilized loblolly pine, 8094  
 properties of forested loess soils after repeated prescribed burns, 8091
- Moench, Robert H.,** geology and uranium deposits of Laguna district, N. Mex., 8165
- Moffett, Roy R.,** paper, May 22-24, 1967, 12785
- MOFSET** analog memory circuit achieves long duration signal storage, 6766
- Mohair:**  
 production—  
 1960-64, revised estimates by States, 7297  
 price and value, 8763
- Mohammedanism:**  
 Bolshevization of Islam, 6496  
 Islam, primitive magic, USSR views, 2452  
 Muslim teachings and education reviewed to Soviet press, 1252
- Mohler, Stanley R.:**  
 impairment of airmanship by alcohol, 4251  
 in-flight response to new non-gyroscopic blind flight instrument, 141  
 oxygen in general aviation, 4250  
 protecting AG pilot, 140
- Mohr, B.,** planetary ionospheres, 12847
- Molsan, Gaston,** green-winged teal, its distribution, migration, and population dynamics, 14067
- Molsture:**  
 conservation for wheat production, 4088, 11923  
 content of—  
 pine foliage, seasonal fluctuation, 2305  
 wood products in use, accurate determination, probe, 2298  
 cycling of trussed rafter joints, 8101



- Moisture—Continued  
 entrapped in honeycomb sandwich structures, detecting techniques, 11453  
 retention-capacity of litter under Arizona chaparral communities, 14112  
 soil depletion by gambel oak, 4831
- Mojave Desert, western, areal geology, 17824
- MOL (manned orbiting laboratory), *see* Satellites.
- Molar volume minerals, 17818
- Molasses:  
 industrial, marketing in United States, 4699  
 market news—  
   annual summary, 7829  
   weekly, 3565
- Moldavian Soviet Socialist Republic:  
 Academy of Sciences, work reviewed, 8272  
 Main Pharmacy Administration, proposals for improving labor organization, USSR study, 15422
- Molds (forms):  
 form lumber, deleterious effects on concrete surfaces, 13988
- Molecular biology, *see* Biology.
- Molecular hydrogen, *see* Hydrogen.
- Molecules:  
 biological macromolecules, study, light scattering method, Rumania, 14234  
 crystal microbalance measures condensable molecular fluxes, 6744  
 electric dipole moments, in gas phase, selected values, 17035  
 ligand, role of ionization potential, research, 9588  
 macromolecular—  
   chemistry field, electron spin resonance research conducted in Hungary, report, 11256  
   determination of elasticity and shape, USSR study, 15414  
   metastable, of atmospheric interest, 4153  
 molecular—  
   bases of pathology, USSR study, 11267  
   vibrational frequencies, tables, 8524, 18077  
 NF, unknown, ground, ionized and excited states, prediction, 5181  
 quantum mechanical study, 5181
- Moline, Ill., area wage survey, 6606
- Molten-salt electrorefining vanadium scrap, 17916
- Molybdenum:  
 disposal from national stockpile, report, 14936  
 hydrocarbon synthesis, use as catalyst, 12827  
 report, monthly, 3566  
 Ti-8Al-1Mo-1V stimulated wing structure, fusion welded, fatigue behavior, 16905
- Molybdenum carbide, thermodynamic data, 1410
- Molybdenum disulfide, bonded with micro-fibrous boehmite, as dry-film lubricants, 10001
- Molzon, Arnold E., encapsulation of electronic parts in plastics, review, 7864
- Moments, thermal bonding plus twist of thin-walled cylinder of open section with application to gravity gradient booms, 15561  
*see also* Magnetic moments.
- Moments of inertia, asymmetrical objects, automatic system determines, 6798
- Momentum, *see* Angular momentum—Motion.
- Momyer, William W., testimony, hearing, 16394
- Monazite, geologic occurrence, 17826
- Mondays, Monday holidays, hearings, 15167, 16332
- Le Monde (periodical):  
 index, 3411
- Monea, Gerda, current retail trade reports, 1966 retail trade, annual sales, etc., 17439
- Monetary policy, *see* Money.
- Money:  
 bank credit and monetary developments, 8002  
 banking and monetary statistics, 14038  
   supplement, 2264  
 cash contribution by Japan for mutual defense, agreement, 15778  
 code of Federal regulations, 6285  
 commodity money (remarks), 15248  
 currency and coin, outstanding and in circulation, monthly statement, 3897  
 current problems of monetary policy (remarks), 1068  
 demand deposits, currency, etc., 3567  
 flow of funds—  
   annual, 2259  
   assets and liabilities, 1062, 2260  
 foreign currencies—  
   conversions, procedures, 8772  
   U.S. owned excess, feasibility of using instead of dollars to pay for ocean shipment of military assistance program materiel, Defense Department and other Govt. agencies, GAO report, 4866  
   U.S. travelers can assist balance of payments, 11887  
 foreign exchange rates—  
   monthly, 3346  
   weekly, 3347  
 how to get money for college, 16501  
 international monetary policy, contingency planning, statements, 4461  
 international monetary reserve asset, new kind (statement), 14709  
 international monetary reserves, new plan to supplement existing assets, hearing, 17563  
 know your money, 5482  
 liquidity and monetary management in 1967 (remarks), 16593  
 living with monetary management (remarks), 11052  
 monetary policy—  
   and economic activity, postwar review, 11054  
   and mortgage market (remarks), 1064  
   and residential mortgage market, 11055  
   financial liquidity, and outlook for corporate profits (remarks), 11056  
   framework, as used by Federal Open Market Committee, analysis, 7740  
   interest rate ceilings, and future of residential financing (remarks), 7999  
   market decisions, and behavior of interest rates (remarks), 8000  
 monetary policy (remarks), 9493-94, 16598  
 monetary system, consolidated condition statement, 3046  
 monetary theory and policy, domestic aspects, bibliography, 8001  
 open market rates and bond prices, monthly, 3655  
 recent credit and monetary developments, 16594  
 reserved foreign currencies, use in lieu of dollar for current expenditures, law, 395  
 respective roles of monetary, fiscal and wage price guidepost policies in 1967 (remarks), 1965  
 special foreign currency science information program, 1967 list of translations in process, 7551, 17464  
 supply and time deposits, 3567  
 supply series, revision, 16596  
 tradition and innovation in monetary management (remarks), 2265

- Money—Continued**  
treasury notes payable in foreign currency—  
law, 513  
summary, 9177  
legislative history, 7762  
report, 702  
Senate amendments, summary, 4567  
withdrawal of cash from Treasury for advances under Federal programs, 7207  
world monetary system for greater society of nations (remarks), 8777  
**Mongolia**, translations, 3961  
**Monitoring**:  
automatic indirect blood pressure device, design, etc., 73  
biomedical, during dynamic stresses testing—  
Flack test, 7360  
instrumentation and normal values, 7343  
Levy hypoxia test, 7344  
maximum exercise tolerance, ergometer, 7361  
tilt table orthostatic tolerance test, 7362  
circuit accurately measures movement of solenoid valve, 2676  
closed circuit TV system-monitors welding operations, 12893  
computer/PERT technique monitors actual versus allocated costs, 8458  
instantaneous, multicomponent expired gases, 2601  
IR vidicon scanner monitors many test points, 15545  
magnetoresistor monitors relay performance, 6810  
microwave, of sea water contamination of Navy fuel oils, 15637  
multiple meter circuits served by single alarm, 17980  
optical monitor panel provides flexible test panel configurations, 2634  
radiation monitoring, programmed instruction book, 15973  
radioisotope gauge for monitoring suspended sediment concentration in rivers and streams, 1794  
resistor monitors transfer of liquid helium, 6750  
security warning system monitors up to 15 remote areas simultaneously, 2665  
spray-on electrodes for ECG of physically active subjects, 9825C  
system determines amplitude and time of vibration channel, 8479  
*see also* Radiation monitoring.  
**Monitors (aeronautics)**:  
monitor assures availability and quality of communication channels, 8460  
**Moniz, William B.**, NMR method for determining organic loading of charcoal, 14597  
**Monkeys**:  
behavior of *Ateles geoffroyi* and related species, 5506  
gamma irradiated plant food effect on, USSR study, 6571  
*Mscaia irus*, calcium, phosphorus, and nitrogen mobilization resulting from conditions of inactivity, study, 5707  
**Macaca mulatta**—  
normal values for clinical blood chemistry tests, 7363  
temperature-sensing telemetry systems, 17360  
motor reflexes, biologically dissimilar, effect of cholinolytics, USSR study, 9641  
**Monnin, Carl F.**, comparison of Gryzinski and Born cross sections for metastable 2s state of atomic hydrogen, 9874  
**Mono Cratera quadrangle, Calif.**, structure and metamorphism, 4887  
**Monoamine oxidase**, inhibitions by convulsogenic doses of hydrazines and related Benzodrazones, 4181  
**Monographs**, *see* names of departments, etc., issuing monographs—*also* subjects.  
**Monolayers**, *see* Monomolecular films.  
**Monolith lysimeters**, *see* Lysimeters.  
**Monomers**, highly halogenated, synthesis, 9855  
**Monomethylhydrazine**:  
effects on—  
coagulation mechanism, 17361  
methemoglobin production in vitro and in vivo, 14773  
renal function, 15901  
toxicity, on frog cornea, 10242  
**Monomolecular films**:  
effects on monolayers on insects, fish and wildlife, 7102  
polydimethylsiloxane monolayers, surface viscosity, 8592  
**Monopoli, Richard V.**, engineering aspects of control system design via direct method of Liapunov, 5165  
**Monopolies**:  
anticompetitive effects of sale of network TV advertising, hearings, 10857, 16124  
antitrust laws—  
administration, investigation—  
authorization, report, 4617  
subcommittee activities, report, 9293  
nolo contendere and private antitrust enforcement, hearings, 13875  
price discrimination legislation, hearings, print additional copies, reports, 916, 2030  
Congress and monopoly problem, antitrust field, 1890-1966, history of congressional action, 4561  
dual distribution, Clayton act, amend to prohibit vertically integrated companies from engaging in discriminatory practices, etc., hearings, 6115  
economic concentration, and divisional reporting, etc., hearings, 6116, 12415  
international aspects of antitrust, hearings, 7818, 13874  
Justice Department antitrust activities, review, 8280  
manufacturing industry, concentration ratios, 2126  
supplement, 13362  
petroleum, British and U.S., exploit Persian Gulf, 1188  
**Monopulse radar**, cross modulation in Scamp signal processor, 9990  
**Monroe, Frederick F.**, feasibility study of wave-powered device for moving sand, 13975  
**Monroe, John A.**:  
copper—  
industry report, 11th annual statistical supplement, 12027  
quarterly industry report, 3150  
**Monroe County, Miss.**, soil survey report, 5518  
**Monroe County, N.Y.**:  
Red Creek, Genesee River Basin, engineer report—  
departmental edition, 2218  
document edition, 2067  
**MONTALVO, Irma S. Ruiz**, *see* Ruiz Montalvo, Irma S.  
**Montana**:  
alpine snow, mechanical properties, 13292  
bark beetle attacks on ponderosa pine trees, distribution, 11115  
Big Snowy and Amsden groups and Mississippian-Pennsylvanian boundary, 15309  
census of agriculture, 1964, State and county statistics, 8964  
census of manufactures, 1963, area statistics, 160  
census of mineral industries, 1963, area statistics, 4292  
climatological data, 3096  
county business patterns, 10350, 17427  
electric rate book, 11022

# INDEX 1967

- Montana—Continued  
 mineral industries, water requirements and  
 uses, 2539  
 mineral industry, minerals yearbook chap-  
 ter, 6660  
 northwestern, floods of June 1964, 15314  
 Phillipsburg district, Granite County,  
 Mont., geology and ore deposits, 15305  
 postal map, 15661  
 precipitation data, hourly, 3401  
 public lands, use of income for schools,  
 etc.—  
   law, 12177  
   reports, 10733, 12262  
 radioactivity, airborne, 1952–55, maps,  
 1802  
 sedimentary rocks, chemical composition,  
 14172  
 water supply outlook and snow surveys,  
 4047, 18217  
 western—  
   development of progeny of ponderosa  
   pine, 6365  
   pinus ponderosa, performance of 14-  
   year-old hybrids, 8067  
   ponderosa pine, natural mortality in  
   old-growth stands, cause, 4830  
 Montauk Point, N.Y., to Minnassquan, N.J.,  
 coastal warning facilities chart, 14721  
 Monte Carlo method:  
   calculation of Doppler coefficients, 18030  
   code for solution of planar electron-diode  
   problems including electron-neutral  
   elastic collisions, 15558  
   electron flow in low density argon gas in-  
   cluding space-charge and elastic col-  
   lisions, 14480  
   plane isotropic buildup factors for brems-  
   strahlung calculations, 15565  
   techniques for statistical system perform-  
   ance analysis, determined by computer  
   program, 16950  
 Monte Vista National Wildlife Refuge, gen-  
 eral information, 16260  
 Montegudo, Maria Y. R. Miranda y, *see*  
 Miranda y Montegudo, Maria Y. R.  
 Monteith, L. K., charge storage effects in  
 mylar resulting from electron irradiation,  
 2610  
 Monterey Bay, benthic amphipoda, 2751  
 Monterey County, Calif.:  
   population, special census, 10373  
   Ventana primitive area mineral resources,  
   12604  
 Monterey pine, *see* Pine.  
 Montes, Francisco, relief, 13745, 16215,  
 17516  
 Montgomery, Kathleen M., geology of Stew-  
 art Flat quadrangle, Caribou County,  
 Idaho, 11162  
 Montgomery County, Pa., soil survey report,  
 11807  
 Month-end storage in major reservoirs in  
 Pacific Northwest, 3907  
 Monthly:  
   NOTE.—For all publications  
   which begin with the word  
   “Monthly”, *see* subject, or name of  
   department, etc., issuing publica-  
   tion.  
 Months, *see* American History Month—Steel-  
 mark Month—also names of special  
 months.  
 Monticello Dam, vibration studies, 17181  
 Monticello mining district, uranium de-  
 posits, 6391  
 Montmorillonite:  
   Umat bentonite, analysis, etc., 13291  
   water mixtures, frozen phase composition  
   from heat capacity measurements,  
   14792  
 Montrose County, Colo., Delta-Montrose area,  
 soil survey report, 15747  
 Monument Valley mining district, uranium  
 deposits, 6391
- Monuments, heritage to discover, 2184  
 Moon:  
   Apollo program pace and progress, 10678  
   contours through lunation, isothermal and  
   isophotic atlas, 16894  
   control of thrust axis during planar as-  
   cent from lunar surface to circular or-  
   bit by manual method, 1490, 14449  
   docking of lunar module with Apollo com-  
   mand module in lunar orbit, simula-  
   tion, 11520  
   exploration and use, treaty on principles  
   governing activities of States, analysis  
   and background data, 7791  
 landings—  
   Langley research facility, operational  
   features, 6875  
   research vehicle, electronic flight control  
   systems, operational experience, 1496  
   Surveyor III, preliminary report, 14403  
 lunar charts—  
   AIC 57C, Encke, 7323  
   AIC 57D, Maestlin, 7324  
   AIC 61C, Secchi, 7325  
   AIC 75A, Flamsteed, 7326  
   AIC 75B, Wichmann, 7327  
   AIC 76A, Euclidea P., 7328  
   AIC 76B, Fra Mauro, 7329  
   AIC 77B, Hipparchus, 7330  
   AIC 78A, Delambre, 7331  
   AIC 78B, Torricelli, 7332  
   AIC 79B, Messier, 7333  
   earthside hemisphere, 15887  
   earthside reference, 4168  
   LAC 11, J. Herschel, 10224  
   LAC 12, Plato, 10225  
   LAC 23, Rumker, 10226  
   LAC 24, Sinus Iridum, 7320  
   LAC 25, Cassini, 7321  
   LAC 26, Eudoxus, 13263  
   LAC 62, Mare Undarum, 7319  
   LAC 96, Rupes Altai, 7322  
   LAC 113, Maurolycus, 8865  
   LAC 114, Rheita, 4167  
 lunar experiments, data sampling rates,  
 multiplexing control device for han-  
 dling wide variations, 12887  
 lunar explorers, self-locomotive perform-  
 ance based on experimental reduced-  
 gravity studies, 11501  
 lunar farside charts, 13264–265, 17341  
 lunar intersection of tail of earth's magne-  
 tosphere, indications, 1284  
 lunar missions—  
   abort guidance, manual technique with  
   concentric-flight-plan rendezvous,  
   14481  
   Lunar Orbiter I—  
     extended mission operations, 14395  
     photographic mission summary, 8429  
     photography, 14394  
 lunar orbit mission analysis for improved  
 delta launch vehicle and AIMP-D space-  
 craft, 11495  
 lunar satellite, Luna-10—  
   magnetic field measurements in neigh-  
   borhood by, 1285  
   soft corpuscular radiation, study, 1283  
   spectral composition of gamma radia-  
   tion, 1281  
 lunar science and exploration, 1967 sum-  
 mer study, 17952  
 lunar surface studies, bibliography, 11432  
 lunar surveying staff concept, penetrom-  
 eter technique, 11503  
 publications, price list, 5419  
 results of experiments for detection of  
 lunar ionosphere made on 1st lunar  
 artificial satellite, USSR study, 4950  
 Saturn V, manned flight to moon, NASA  
 facts, 12878  
 solid interplanetary matter in neighbor-  
 hood of the moon, USSR study, 1286  
 storage vessel on moon, thermal charac-  
 teristics, 5259

Moon—Continued  
 stratified and multi-faceted forms on lunar panoramas obtained by Luna-9, 1280  
 Moon-Blink project, *see* Project Moon-Blink  
 Moore, A. M., correlation and analysis of water-temperature data for Oregon streams, 8177  
 Moore, Billy J., analyses of natural gases of United States, 2543  
 Moore, Charlotte E., solar spectrum 2935Å to 8770Å revision of Rowland's preliminary table of solar spectrum wavelengths, 1522  
 Moore, Clarence A., economic evaluation of starch use in textile industry, 7881  
 Moore, Felix E., serum cholesterol levels of adults, 8661  
 Moore, Gordon E., technique for rearing pales weevil, 9538  
 Moore, J. Cordell, remarks, Oct. 6, 1967, 17847  
 Moore, John B., \$5.00 regular postage stamp (poster), 1558  
 Moore, Norman D., records relating to appointment of Federal Judges, etc., Idaho, Territory and State, pamphlet, 18071  
 Moore, Raymond S., guide to higher education, consortiums, 7898  
 Moore, Thomas J., brazing tungsten for high-temperature nuclear service in hydrogen, 11506  
 Moore, William H., deer browse resources of Uwharrie National Forest, 8124  
 Moore County, N.C., school desegregation in quiet sensible way, 15213  
 Moorer, Thomas H.:  
 nomination, hearing, 15148  
 testimony, hearing, 16394  
 Moores Creek National Military Park, general information, 5318  
 Moot, Robert C., nomination, hearing, 13848  
 Mootchnik, D. L., lunar orbit mission analysis for improved delta launch vehicle and AIMP-D spacecraft, 11495  
 Morad, Ali-Haji, relief, 321, 598  
 Morale, aircrew, factors affecting, 2d study, 4184  
 Morality, *see* Ethics.  
 Moran, H. E., Jr., permeability and elutriation methods for determining specific surface of dry chemical fire-extinguishing powders, 11678  
 Moravia, Alberto, Chinese cultural revolution as seen by, 16736  
 Morbidity:  
 health interview survey, standardized ratios for measures of illness by family size, etc., 7097  
 morbidity and mortality weekly report, 3585  
*see also* Diseases of animals.  
 More about machine thinking, USSR, 2456  
 More timber, more jobs, 17798  
 Morehouse, Alanson D., III, handling materials safely, 9681  
 Morell, Albert P., relief, 13581, 13786, 14903  
 Morfi, Raul R., relief, 268, 582, 805  
 Morgan, Q. Martin:  
 Argentina's livestock and meat industry, 11099  
 Uruguay's livestock and meat industry, 11098  
 Morgan, Roy L., remarks, Nov. 10, 1966, 1949  
 Morgan City, La., to Brownsville, Tex., coastal warning facilities chart, 11903  
 Morgantown, W. Va., Forestry Science Laboratory, research facility, Northeastern Forest Experiment Station, purpose, work, etc., 14084  
 Morgenthaler, John H., supersonic mixing of hydrogen and air, 9807  
 Morgis, Genevieve G., State compensatory provisions for occupational diseases, 8337

Moriches Bay, pollution of navigable waters, conference proceedings, 6339  
 Morocco:  
 agricultural commodities, agreements, 1636-37, 7163, 7176, 8727  
 cultural relations, agreement, 10102  
 economy, basic data, errata, 1941  
 labor conditions, 1383  
 mineral industry, minerals yearbook chapter, 8357  
 Morphology:  
 brain tumor cells, use of anoptal microscope, USSR study, 12739  
 interphase nucleus, USSR study, 12747  
 Morphology (linguistics):  
 Seneca Indian language, 13001  
 Morrell, Lester G.:  
 mineral industry of—  
 Australia, 5109  
 British Solomon Islands, Christmas Island, Fiji Islands, Makatea, Nauru and Ocean Islands, New Caledonia, New Hebrides, and Papua and New Guinea, 9759  
 Canada, 6647  
 Greenland, 8350  
 New Zealand, 8359  
 regional mineral industry review of—  
 North America, 11368  
 South Pacific, 6673  
 Morrice, Edward, electrowinning high-purity neodymium, praseodymium, and didymium metals from their oxides, 11384  
 Morris, D. A., summary of hydrologic and physical properties of rock and soil materials, as analyzed by Hydrologic Laboratory of U.S. Geological Survey, 8182  
 Morris, Dolores G., convey land to, 4494  
 Morris, Gwilym L., estate, convey land to, 4494  
 Morris, Meredith J., grassland research, 10185  
 Morrison, Warren E., review of mineral-fuel industries, 5132  
 Morrison formation, *see* Jurassic period.  
 Morro Bay, polychaeta and amphipoda, benthic survey, 6956  
 Morrow, T. H. Jr., helipad standard marking pattern, 17734  
 Morrow Point Dam, hydraulic model studies, 13103  
 Marsh, Joseph E.:  
 impact of computer on job analysis in Air Force, 13268  
 job types identified with inventory constructed by electronics engineers, 4170  
 Mort, Kenneth W., wind-tunnel investigation of 7-foot-diameter ducted propeller, 15573  
 Mortality, *see* Death.  
 Mortgage insurance:  
 companies, income tax deductions, report, 15093  
 dealers and individuals subject to certain section of title 1, National housing act, list, 11010  
 FHA—  
 group practice facilities program, information guide and instruction handbook, 14024  
 home—  
 area trends, 9454, 12504  
 regulations, amendments, 1046, 6250-53, 11011  
 State trends, 9455, 12506  
 housing for the elderly, 6427  
 multifamily projects, handbook, 2245  
 project, regulations, amendments, 1047, 6254-56, 7963-65, 11012-13, 12505  
 rental and cooperative housing for families of low and moderate income, 12624  
 urban renewal, consumer bulletin, 11203  
 veterans' homes, 11201

# INDEX 1967

- Mortgage Insurance—Continued  
 FHA multiple dwelling projects, investigation—  
 hearings, 2118, 9314  
 report of findings, 12392  
 group medical and dental practice facilities, constructing and equipping, law, 465  
 summary, section-by-section analysis, legislative history, and conference report, 725  
 housing digest, 6433  
 investment of institutional funds in FHA insured mortgages, 12626  
 mortgagee's handbook, home programs, FHA manual, revisions, 4767-69, 14025  
 nonfarm, investments of life insurance companies, 15241  
 nursing homes, FHA-assisted program, 1965 survey, 6435  
 title 10, FHA land development handbook, 16575
- Mortgages:  
 can mortgage market be made more effective? (remarks), 7996  
 credit, study, housing, real estate, etc., statements and recommendations, by Federal agencies, 10821  
 credit to meet housing needs, Federal policies, hearings, 15151  
 discounts, report by HUD, 6091  
 farm—  
 lending experience of life insurance companies, etc., 9395  
 mortgage act, etc., 1983  
 mortgage debt, 2175
- FHA—  
 homes, regulations, amendment, 17757  
 insured, investment of institutional funds in, 12626
- home—  
 FHA guidelines for payments, 6428  
 FHA trends, 3333  
 mortgage debt, estimated, quarterly, 3244
- liquidity in market, attaining (address), 9452
- monetary policy and mortgage market (remarks), 1064
- monetary policy and residential mortgage market, 11055
- nonfarm real estate foreclosure report, 3637
- recording letter, monthly, 3586
- savings and mortgage lending activity, selected balance sheet items, FSLIC insured savings and loan associations, 3365
- ship, fees for and retention of certified copies—  
 hearings, 4552  
 law, 364  
 report, 887
- ship, transfer authority to approve surrender of documents—  
 hearings, 9159, 10849  
 message from the President, 7598
- stimulate flow of credit for FHA and VA assisted residential construction, report, 4502
- Veterans Administration—  
 foreclosures, handling by Justice Department—  
 hearings, 15031  
 report, 14947
- Morton, Conrad V., genus *Grammitis* in Ecuador, 17049
- Morton, James G.:  
 addresses, etc.—  
 Jan. 17, 1967, 4428  
 Jan. 23, 1967, 4424  
 Apr. 11, 1967, 7561, 9009  
 Apr. 17, 1967, 7582  
 May 4, 1967, 9011
- Mosaic disease, problem of possibility of infecting animal cells with ribonucleic acid of tobacco mosaic virus, USSR study, 6486
- Mosaics:  
 lunar charts, earthside hemisphere, 15887  
 lunar reference, earthside hemisphere, 4168
- Moscow, Russian SFSR:  
 East of the Elbe, study mission report, 6104  
 Moscow production of Max Frisch's *Don Juan* criticized, 6541
- Moscow, Battle of, 1941-42, reminiscences of G. Zhukov and I. Konev, 1287
- Moscow Naturalist Society, Biophysics Section, activity, 4971
- Moscow Scientific Research Institute of Epidemiology and Microbiology, activities, 5023
- Moscow University, geographers, activities, 12662
- Moseley, William C., jr.:  
 aerodynamic stability characteristics of Apollo launch escape vehicle, 12925  
 Apollo wind tunnel testing program, 2722  
 stability characteristics of Apollo command module, 8500
- Moshier, Ronald L., soil survey of Treasure County, Mont., 10089
- Mosquitoes:  
 culex subgenus *Culex* in New World (Diptera: Culicidae), classification, 6953  
 irrigated farms, prevention, 7261
- Moss, Alan L., blast furnaces, steelworks, rolling mills, 17729
- Mossbauer effect, utilized in vibration analysis, 17962
- Mosses, copper mosses as indicators of metal concentrations, 4886
- Mossinghoff, Gerald J., remarks, June 22, 1967, 13048
- Mothers:  
 assessing feasibility of employment and adequacy of child-care plans, criteria, 13414  
 day care and working mother, magnitude of problem on national scale (talk), 11908  
 who are the working mothers, 5605, 13188  
 working mothers and need for child care services, 10144
- Moths:  
 genus *Euchromius* Guenée with descriptions of new species (Lepidoptera: Crambidae), review, 5308  
 Loxostege Hubner species review and descriptions of new species (Lepidoptera, Pyraustidae: Pyraustinae), 8542  
 neotropical agarlentine (Lepidoptera: Noctuidae), notes, etc., 5312  
 subfamily Prodoxinae (Lepidoptera, Incurvarilidae), revision, 8535  
 tympanate, ultrasonic speaker for studies of acoustic sensitivity, 4083  
 Zimmerman pine moth, description, control, etc., 11105  
 see also Clearwing moths—*Eusceptis* Hubner—*Microlepidoptera*—Tip moths—Yellow peach moths.
- Motility of bacteria, see Bacteria and bacteriology.
- Motion:  
 coulomb interaction in momentum space, theory, 11567  
 drive system accurately controlled in 1-micron range, 9825F  
 strong motion and surface acceleration, Project Handcar, 5782  
 upper troposphere, as revealed by satellite-observed cirrus formations, 9430  
 see also Equations of motion.
- Motion picture theaters, industry wage survey, 11330
- Motion pictures:  
 Agriculture Department, bimonthly list, 3058  
 air pollution films, on loan for group showing, list, 13075  
 aviation education, 9438

Motion pictures—Continued  
 bold new approach, how a community plans and develops comprehensive mental health center, film announcement, 17138  
 captioned films for the deaf—  
 catalog, 7891  
 program, 10929  
 catalog of copyright entries, 12435, 17685  
 civil defense, memorandum to industry, movie, announcement, 10407  
 employment security, farm labor, unemployment insurance, etc., 12472  
 Federal Fire Council film library list for safety programs, 14164  
 films on oceanography, catalog, 2770  
 Forest Service films available for educational purposes, list, 12569  
 housing and community development, bibliography, 11204  
 in search of peace, basic goals of United States foreign policy, 7149  
 instructional film, research, 9409  
 July rain, Soviet motion picture reviewed, 16771  
 Library of Congress catalog, 3506  
 machine to predict box-office success, USSR study, 11288  
 medicine and allied sciences, film reference guide, 13073  
 mental health films, guide, 14636  
 nursing in coronary care units, films, 11754  
 Office of Economic Opportunity film guide, 10910  
 pathfinders from the stars, motion picture covering history and development of methods for determining geographic position, announcement, 16085  
 professional level (16 mm), AEC catalog, 5800  
 Public Health Service film catalog, 17045  
 State Department, film list, 8717  
 Motion sickness, methionine-pyridoxine and sickness, observations, 77  
 Motivation (psychology):  
 Army research and development personnel, motivational work factors, 4228  
 Motive power, see Power.  
 Motor buses, see School buses.  
 Motor carrier decisions, see Interstate Commerce Commission.  
 Motor carriers:  
 census, 1963, motor carrier survey, 4302  
 class 1 and 2, cost of transporting freight—  
 Central region, 11232  
 general commodities by regions or territories, 16726  
 Midwest region, 11233  
 New England region, 9604, 11234  
 Southwest region, 11235  
 passenger transportation industries, 1964, compensation expenditures and payroll hours, 17893  
 passengers, certificates issued in future shall not confer right to special or charter operations—  
 hearings, 947  
 law, 508  
 report, 890  
 revenues, expenses, other income, etc., of—  
 class 1 carriers of passengers, quarterly, 3834  
 large carriers of property, quarterly, 3835  
 transport statistics, 12657  
 see also Motor vehicle accidents.  
 Motor courts, motel employees under fair labor standards act as amended, 7225  
 Motor cycles, see Motorcycles.  
 Motor fuel:  
 aviation handbook, Coordinating Research Council, 11624  
 highway statistics, 13101  
 storage tank linings, effects of anti-icing additive, final report, 9991  
 see also Gasoline.

Motor reactions, arousal as factor in reminiscence, 9981  
 Motor trucks, see Motortrucks.  
 Motor vehicle accidents:  
 Air Force personnel, attempt to predict automobile accidents, 17344  
 collisions in D.C., report to police, report, 7689  
 District of Columbia, uninsured motorist coverage required part of liability policies, report, 13644  
 highways safety study, Operation 66, joint engineering-enforcement, project report, 1594  
 motor carrier accident investigation reports, 1153, 4927-28, 6176, 11236, 16872-875, 17917  
 property carriers, 1965-66, operating revenues \$200,000 or more, 16871  
 traffic safety, Federal role, hearings, appendix, 9315  
 Motor vehicle operators:  
 District of Columbia, permits, issuance for less than 3 years, report, 12381  
 driver, automotive magazine of Air Force, 11949  
 drivers licenses, statistics, 17176  
 medical advisory boards for driver licensing, 8638  
 National Driver Register, State records exchange service, 18087  
 overtaking and passing on 2-lane rural highway, 14641  
 revocation or suspension of license to drive while under influence of drugs, etc., amend laws, report, 17623  
 Motor Vehicle Safety Advisory Council, National, see National Motor Vehicle Safety Advisory Council.  
 Motor vehicles:  
 abandonment in U.S. urban areas, 7451  
 air pollution—  
 control, determine means of propelling vehicles other than internal combustion engine, hearings, 13856  
 control, Federal standard, 6324  
 problems and progress associated with control, hearings, 10871  
 report of HEW to Congress, 6056, 16349  
 print as Senate document, report, 6083, 15142  
 anchorage of seats, Federal standard, 6320  
 anchorages for seat belt assemblies, Federal standard, 6315  
 armrests, Federal standard, 6328  
 ashtrays and lighters, Federal standard, 6327  
 automotive products industry, trade agreement with Canada, 2924  
 classification definitions, 18129  
 code of Federal regulations, 6280  
 District of Columbia—  
 registration, facilitate addition of name of spouse of owner—  
 law, 12178  
 reports, 12382, 13640  
 title certificates applications, eliminate oath requirement, report, 12383  
 emissions, control, progress (address), 2836  
 energy absorbing steering control system for automotive vehicles, Federal standard, 6318  
 equipment defects, etc., 1960-66, including correction efforts, hearings, appendix, 9315  
 Federal Item Identification guides for supply cataloging, supplements, 3285  
 forward compartment energy absorption, Federal standard, 6316  
 fuel tanks and tank filler pipes for automotive vehicles, Federal standard, 4795  
 glare reduction surfaces, Federal standard, 6323



# INDEX 1967

## Motor vehicles—Continued

Government's interagency motor pool system, potential savings obtainable through increased use, Defense Dept., GAO report, 8137  
head restraint requirements, Federal standard, 6330  
highway statistics, 13101  
hydraulic service brake system, Federal standard, 6321  
identification marking of combat and tactical transport vehicles, 12443  
initial Federal motor vehicle safety standards, Jan. 31, 1967, report on development, 9024  
instrument panel instruments and control devices, Federal standard, 6317  
interagency pool, GSA, savings by adopting manufacturers' recommended preventive maintenance programs, GAO report, 16673  
padding for automotive seat backs, Federal standard, 6329  
rear window defogger, Federal standard, 6332  
rearview mirrors for automotive vehicles, Federal standard, 6325  
registered and unregistered, made available for use of Presidential Inaugural committee, issue special registration tags, valid for 90 days, report, 7686  
rigging Air Force communication control vehicles for airdrop, Army technical manual, 1771, 7398  
roll bar structure for automotive vehicles, Federal standard, 6333  
safety defect recall campaigns reported by manufacturers, 18086  
safety door latches and hinges, Federal standard, 6319  
safety responsibility act of District of Columbia, as amended, amend, report, 17623  
safety standards—  
    application to those produced in quantities less than 500, hearing, 17647  
    establish, report, 645  
side marker devices, Federal standard, 6331  
standard safety devices, Federal standard, 4796  
Tariff Commission report to Automotive Agreement Adjustment Assistance Board in case pertaining to Maremont Corporation, 5565  
tariff elimination agreement with Canada, implementation, annual report, 7803  
tracked combat vehicles, military procurement—  
    appropriations, 1967, report, 2014  
    appropriations, 1967, supplemental—  
        hearings, 6031, 7799  
        law, 9035  
        reports, 6087, 7665, 7667, 7673  
    appropriations, 1968—  
        hearings, 7797, 9149  
        law, 12164  
        reports, 7786, 10570, 10575, 10611  
treatment, painting, etc., military standard, 4678  
used tires, rebuilding by civil agencies, GAO review, 14162  
utilization in Cape Kennedy interagency motor pool, GSA and NASA, GAO report, 2353  
window and door controls, Federal standard, 6326  
windshield wipers and washers, Federal standard, 6322  
world production and registration, 8926  
*see also* Electric vehicles.

Motorboats, Coast Guard Auxiliary examination program, courtesy examiners handbook, 5947

## Motorbuses:

charter rights, grant of regular route authority does not confer right to engage in special or charter operations—  
    hearings, 947  
    law, 508  
    report, 890  
District of Columbia, reduced fare for schoolchildren, raise age limit, report, 16380  
interstate, proration compact, Massachusetts, consent of Congress, law, 440

Motorcycles:  
    Federal item identification guides for supply cataloging, supplements, 3285  
    United States, popularity, accidents, injury control, 5448  
    your motorcycling fun and personal protection, 17174

Motorists, highway safety study, Operation 66, joint engineering-enforcement project report, 1594

Motors:  
    hysteresis synchronous, circuit increases capability, 11440  
    motors and generators, current industrial reports, 4333, 17432  
    nutator actuator, use of fluid logic control circuit to operate, 6759  
    simple drive system operates heavy hinged door, 8404  
    spring, weight and animal-powered, classification definitions, 18130  
*see also* Electric motors.

Motortruck drivers, transporting ammunition, explosives, and dangerous articles, driver's handbook, 7009

Motortrucks:  
    electric, evaluation, 9770  
    industry report, monthly, 3588  
    refrigerated truck, bodies, testing and rating method, 17335  
*see also* Firefighting vehicles.

Motortrucks in freight service, air-truck coordination and competition, 11231

Mott, John R., soil survey of Franklin County, Mass., 8696

Mota, H. T., intense neutron sources, proceedings of seminar, 13315

Moulds, Donald E., lead, 2545, 5107

Mount, *see* name of mountain, except when "Mount" occurs as first word of name of town, etc.

Mount Hermon School, East Northfield, Mass., carillon, duty-free entry, 7650, 16353

Mount Holyoke College, polarimeter, duty-free entry, 13775

Mount Rainier National Park, general information, 5319

Mount Rogers National Recreation Area, establish, report, 2085

Mountain Fuel Supply Co., oil and gas lease, reinstate, report, 10738

Mountain pine beetles, *see* Beetles.

Mountainmahogany, birchleaf, use of helicopter-applied herbicides to control, 14111

Mountains, flying helicopters over at night, guidance systems tested, 8089  
*see also* Seamounts.

Mounting bases, mount, film slide, photographic, overhead projector, Federal standard, 16604

Mourino de Moya, Ena H., relief, 9237

Mourning doves, hunting, possession, transportation, importation in Alaska, Federal regulations governing, 14061

Mouth:  
    bacteriologic evaluation, man in oxygen-helium atmosphere, 84  
    oral cancer, early detection using exfoliative cytology, training course summary, 18161  
    oral diseases, brief review of research studies, 18173



- Mouth—Continued  
pyorrhea and other gum diseases, research  
explores, 2819
- Movement (psychology):  
control of movements in man, USSR study,  
12690
- Moving, see Transportation.
- Mower, R. W., causes of fluctuations in rate  
of discharge of Clear Lake Springs, Millard  
County, Utah, 12618
- Mowing understory vegetation in young teak  
plantation, 12574
- Moya, Ena H. Mourino de, see Mourino de  
Moya, Ena H.
- Moye, Robert, accident, 11238
- Moyer, Elbert L., jr., controlling off-site  
hardwoods with 2, 4-D amine concentrate,  
12583
- Moyer, Elsie Z., basic data on metabolic  
patterns in 7- to 10-year old girls in se-  
lected Southern States, 13227
- Moyer, Forrest T.:  
employment and injuries in—  
fuel industries, 2536  
metal and nonmetal industries, 8338  
mineral industries, 2537  
injury experience in—  
metallic mineral industries, 11355  
nonmetallic mineral industries, 9756
- Moyer, James E., study of man in oxygen-  
helium atmosphere, oral, cutaneous and  
aerosol bacteriologic evaluation, 84
- Mozambique, see Portuguese East Africa.
- MRA, see Model Reporting Area for Blind-  
ness Statistics.
- MS-222, fish control investigations, 8033
- MSI series, 3032, 3862-63
- MTMTS, see Military Traffic Management  
and Terminal Service.
- Muessig, Siegfried, geology of Republic  
quadrangle and part of Acneas quadrangle,  
Ferry County, Wash., 16682
- Mumford, L. J. Patrick, stratigraphy of  
Keku Islets and neighboring parts of  
Kulu and Kupreanof Islands, southeast-  
ern Alaska, 12600
- Muhlenbergia, Gramineae, subgenus Podo-  
semum and section Epicampes, taxonomic  
study, 17047
- Muhlenhaupt, R. C., single-engine Claude  
cycle as 4.2°K refrigerator, 14517
- Muir Woods National Monument, general  
information, 11617
- Mule Creek Oil Co., Inc., relief, 783
- Mullet Key:  
engineer report—  
departmental edition, 2214  
document edition, 2007
- Mullin, Sylvia R., progressive fish-culturist,  
3778
- Mullins, Cecil J.:  
attempt to predict automobile accidents  
among Air Force personnel, 17344  
prediction of success in instructional  
programmer school, 17345
- Mullins, Richard H., establishing business in  
Peru, 231
- Multifocal premature contractions, ECG  
finding of grave significance, 15897
- Multiple sclerosis:  
nature, causes, treatment, etc., hope  
through research, 18166  
progress in research, 18179
- Multiplexer uses insulated gate-field effect  
transistors, 18001
- Multiplexing, control device for handling  
wide variations in sampling rates, 12887
- Multipliers, see Lagrange multipliers.
- Multivariable analysis of mechanics of pen-  
etration of high speed particles, 6708
- Multivariable processes, see Statistical pro-  
cesses.
- Mumford, Beattie C., list of intercepted plant  
pests, 7250
- Mundorf, M. J. ground water in vicinity of  
American Falls Reservoir, Idaho, 17832
- Munford, James A., embedment and other  
metallurgical and mechanical character-  
istics of cross-wire resistance welds,  
2698
- Munitions:  
arms sales and foreign policy, study, 6098  
United States armament and disarmament  
problems, hearings, 10836
- Muniz y Sotolongo, Julio C., relief, 260
- Munoz, Federico de la Cruz, see Cruz-Munoz,  
Federico de la.
- Muravin, L. D., Soviet sculptor, transcript of  
conversation on Chinese artists, traditions,  
and cultural revolution and Red Cross,  
4948
- Murchison, Roderick G., mineral industry of  
Ghana, 8349
- Murine leukemia, see Leukemia.
- Murphree, L. C., soil survey of Monroe  
County, Miss., 5518
- Murphy, Charles S.:  
addresses, etc.—  
Nov. 14, 1966, 1900  
Apr. 17, 1967, 8973  
Apr. 30, 1967, 8968  
June 21, 1967, 12096  
Sept. 29, 1967, 16049
- Murphy, Edward J., rapid colorimetric  
method for field determination of nitro-  
gen dioxide in fumes from explosives,  
14338
- Murphy, J. D., aerodynamic heating data  
for afterbody Project Mercury spacecraft,  
14372
- Murphy, James L., fuel weight and re-  
moval costs in fuel-break construction,  
8082
- Murphy, Louis J., basic data on economy of  
Venezuela, 5954
- Murphy, Richard J.:  
remarks, etc.—  
July 12, 1967, 14611  
July 17, 1967, 13057
- Murphy, Robert T.:  
addresses, etc.—  
Nov. 3, 1966, 189  
Nov. 5, 1966, 186  
Nov. 10, 1966, 1899  
Jan. 20, 1967, 4368  
Feb. 24, 1967, 5911  
Mar. 29, 1967, 7523  
July 14, 1967, 13420  
Oct. 11, 1967, 17446  
Oct. 13, 1967, 17445
- Murphy, Thomas E.:  
control structure, Little Sioux River, Iowa,  
hydraulic model investigation, 7931  
drop structure for Gering Valley project,  
Scottsbluff County, Nebr., 6213  
Willow Springs and Sag Junction diver-  
sions, Chicago Sanitary and Ship Canal,  
Illinois, 10962
- Murray, J. F., tumors of alimentary tract in  
Africans, 14632
- Murtagh, T. B., analysis of sextant navi-  
gation measurements during lunar mod-  
ule rendezvous, 6903
- Muscidae, see Flies.
- Muscles:  
biochemistry, Soviet research, 14214  
denervated, luminescent-microscopic study,  
USSR, 14251  
man's, electromechanical model and its  
use in programmed teaching, USSR  
study, 2466  
muscular exercises and intermittent  
venous occlusion, possible preventive  
effects on cardiovascular decondition-  
ing after bed recumbency, study, 8408  
myofibrils, USSR studies on microlocaliza-  
tion of potassium, 14217  
photoactivation of smooth muscle with  
ruby laser, 17362  
photodiffusion in muscle cells, under effect  
of local and irradiating excitation,  
USSR study, 14259

# INDEX 1967

- Muscles**—Continued  
skeletal, functional role of protein sub-fractions in myofibrillary proteins, USSR study, 14228  
vital staining of muscle tissue during excitation, USSR study, 14255
- Muscovite, micamuscovite**, temperature dependence of dielectric constant, at varying frequencies, USSR study, 16737
- Musen, Peter**:  
application of Krylov-Bogolubov method to solution of stellar 3-body problem, 2695  
modifications in Brouwer's theory of general perturbations in rectangular coordinates, 2703  
numerical theory of satellites in Brendel's coordinates, 11545
- Museum of Art, Science, and Industry, Bridgeport, Conn.**, planetarium, elementary school class visit, 5278
- Museums**:  
come alive with films, banjos, etc., 9402  
cooperative assistance from National Museum, authorize—  
law, 392  
report, 681  
marine in United States, 16843  
robots serve as guides, USSR studies, 17867  
see also names of museums or places where located.
- Musgrave, John R.**, purification and crystallization of amorphous boron powder recovery and purification of boron from residues and scrap, 12017
- Mushrooms**, growing in United States, 1687
- Music**:  
catalog of copyright entries, 967, 16452  
sonata for 2 clarinets, student composers take over, 7911
- Musical instruments**, Federal item identification guides for supply cataloging, supplements, 3292  
see also Clarinets.
- Musical pitch**, masked DL for pitch memory, 11348
- Muskegon, Mich.**, area wage survey, 14292
- Muskegon Heights, Mich.**, area wage survey, 14292
- Muskmelons**, pickleworm control, 4116
- Muskogean charm songs** among Oklahoma Cherokees, 6973
- Muslim**, see Mohammedanism.
- Mussels**, certified shippers, list, 3089
- Mutation**, see Variation (biology).
- Mutton**, slaughterlog, cutting, and processing on farm, 1690
- Mutual aid**, see Military aid.
- Mutual assistance**, see Military aid.
- Mutual defense**, see Military aid.
- Mutual defense assistance control act** of 1951, see Exports.
- Mutual fire insurance companies**, see Fire insurance.
- Mutual security**, see Military aid.
- My generation's finest achievement** (address), 7902
- Mycoplasma**:  
indirect hemagglutination test for Mycoplasma pneumoniae employing commercially available antigen and adapted to microtiter technic, 5754  
relationship to rheumatoid arthritis and related diseases, proceedings, conference, 2833
- Myers, Clifford A.**:  
height-diameter curves for tree species subject to stagnation, 2311  
yield tables for managed stands of lodgepole pine in Colorado and Wyoming, 11140
- Myers, Donald A.**, Fusulinidae from Grafod formation and Wlochell limestone, Canyon group, Upper Pennsylvanian, in Brown County, Tex., 12615
- Myers, Lowell J.**, law and the deaf, 17183
- Myers, Robert J.**:  
comparison of actual experience under OASDHI system with short-range cost estimates, 7117, 14644  
comparison of recent projections of United States population, 11792  
history of cost estimates for hospital insurance, 10082  
long-range cost estimates for old-age, survivors, and disability insurance system, 7118  
relationship of child beneficiaries to old-age beneficiaries, 1603
- Myers, Vance A.**, infrared radiation from air to underlying surface, 2972
- Mylar**:  
charge storage effects from electron irradiation, 2610  
film eliminates silk screening of equipment panels, 1454
- Myocardial ischemia**, see Heart diseases.
- Myodocopa**, see Crustaceans.
- Myofibrils**, see Muscles.
- Myopathy**, microelement metabolism in myopathy patients, USSR study, 2447
- Mystic Shrine**, see Ancient Arabic Order of Nobles of Mystic Shrine.

## N

- N.A.S.A.**, see National Aeronautics and Space Administration.
- N.A.T.O.**, see North Atlantic Treaty Organization.
- N.B.S.**, see National Bureau of Standards.
- N-body problems**, computer simulation of plasma and many-body problems, symposium, 16928
- N.I.H.**, see National Institutes of Health.
- N.L.R.B.**, see National Labor Relations Board.
- N.P.I.P.**, see Poultry.
- N.R.A.B.**, see National Railroad Adjustment Board.
- N.R.L.**, see Naval Research Laboratory.
- Nabo y Plival, Rafael J.**, relief, 12153
- Nabokoff, Katherine**, relief, 287, 843
- Nabrit, Samuel M.**:  
remarks—  
Feb. 2, 1967, 4242  
Mar. 30, 1967, 7435  
Apr. 28, 1967, 8917  
June 14, 1967, 12020  
July 3, 1967, 12025
- Nace, Raymond L.**, are we running out of water?, 6396
- Nacelles**, aft-fuselage-mounted, effects on subsonic longitudinal aerodynamic characteristics of two-turbojet airplane, 2730
- Naeseth, Rodger L.**, low-speed wind-tunnel investigation of tension-structure parawings, 14454
- Naftali, Mortimer L.**, historic books and manuscripts concerning general agriculture in collection of National Agricultural Library, 8515
- Nagle, F. J.**, simultaneous measurements of intra-aortic and auscultatory blood pressures, etc., 4254
- Nahal, L.**:  
mineral industry of—  
Federal Republic of Germany, 12801  
France, 16858  
regional mineral industry review of Europe, 15473
- Nabas, Gabriel A.**, and wife, relief, 569
- Nalditch, S.**, research on role of ligand molecules on ionization potentials, 9588
- Nakamura, Eugene L.**, abundance and distribution of zooplankton in Hawaiian waters, 14064
- Nakano, Akemi**, see Duke, Noriko S.

- Nalty, Bernard C.:  
Marines on Iwo Jima, battle and flag raising, 14311  
United States marines at Harper's Ferry and in Civil War, 12784
- Names (personal):  
census records, your name is somewhere, 10400  
Index medicus, cumulated, 6940
- Namkoong, David, photographic study of condensing mercury flow in 0- and 1-G environments, 12939
- Nanne, Louis V., relief, 7626, 12348, 13475  
Nanostomina, *see* Characidae.
- Nanosecond amplifiers, *see* Amplifiers.
- Napolitano, A., viscosity of standard lead-silica glass, 1520
- Naqib, K. M. Al, geology of Arabian Peninsula, southwestern Iraq, 6407
- Narcotic addicts, rehabilitation, report, 13175
- Narcotic habit:  
narcotic addict rehabilitation act of 1966—  
hearings, 2128  
law, 497  
report, 2913  
prevention and control of narcotic addiction, 6693
- Narcotics:  
and drug abuse, annotations and consultants' papers, 13967  
convention on narcotic drugs, 1961—  
message from the President, 7771  
report, 9190  
text, 17235  
customs decisions, weekly report, 3977  
traffic, 17918
- Narrow, Bernard G., generalized satellite telemetry data simulation program, 1598
- NASA, *see* National Aeronautics and Space Administration.
- NASA BITS, brief ideas, thoughts, suggestions, 16889
- NASA EP series, 9821, 11423, 12877, 17948
- NASA facts, 1437-38, 8430-31, 9822, 12878, 16922-925, 17949-950
- NASA Scientific and Technical Information Facility computer-oriented information service in science and technology of aerospace, 8432
- NASA SP series, 1439-43, 2615-21, 5189-98, 6730-39, 8433-45, 9823-25, 11424-434, 12879-884, 14402-408, 15514-520, 16928-935, 17951  
list, 5109, 11435
- NASA tech briefs, 1444-72, 2622-81, 5200-27, 6740-6850, 8446-79, 9825A-63, 11436-484, 12885-918, 14409-446, 15523-553, 16936-969, 17954-18007  
indexes, 11427, 16931
- NASA, 20th century explorer into sea of space, guide to careers in aero-space technology, 11574
- Nashville, Tenn., housing and urban renewal in metropolitan area, report, 12099
- Nassau County, N.Y., northeastern, geology and hydrology, 4894
- Nativity, *see* Birth.
- Natchez Trace Parkway, general information, 2757
- Nation building and peace building, 14209
- Nation of amateurs, 9403
- National Academy of Sciences:  
Federal research and development program, decision-making process, comments by, report, 15001  
report, 1963—  
departmental edition, 6694  
document edition, 6051  
report, 1964—  
departmental edition, 16876  
document edition, 16347
- Special Panel on Applied Science and Technological Progress, report, 16342  
print additional copies, report, 16263  
hearing, 15049
- National Advisory Board Council, proceedings, 27th annual meeting, 12778
- National Advisory Cancer Council, report, 2835
- National Advisory Commission on Civil Disorders, witnesses summoned by compulsory attendance, testimony, and production of evidence, law, 13541
- National Advisory Commission on Food and Fiber:  
appropriations, 1968—  
hearings, 10629, 12397  
law, 17558  
reports, 10620, 13815  
report, 13963  
technical papers, 15666, 17122-124, 18144
- National Advisory Commission on Rural Poverty:  
appropriations, 1968, hearings, 10629, 12397  
hearings on rural poverty—  
Memphis, Tenn., 17126  
Tucson, Ariz., 15668  
Washington, D.C., 17127
- National Advisory Commission on Selective Service, report, 7045
- National Advisory Committee (agriculture):  
annual instead of quarterly meetings, provide, report, 2020
- National Advisory Committee on Self Help:  
establish—  
hearings, 13861  
message from the President, 6090
- National Advisory Council on Education Professions Development:  
establish—  
law, 12176  
reports, 12275, 13643, 13805
- National Advisory Council on Extension and Continuing Education, annual report, 10598
- National Advisory Council on International Monetary and Financial Policies:  
annual report, 12200  
increase in resources of inter-American Development Bank, etc., report, 13532
- National Advisory Health Council, Allied Health Professions Education Subcommittee report, 14622
- National Aeronautics and Space Administration:  
AEC-NASA liquid metals information meeting, 125  
AEC-NASA tech briefs, 5139-56, 6695-6704, 8384-8404, 9793-98, 11390-392, 12832-845, 14363-369, 15485-494, 16877-887, 17919-932  
Aerobee sounding rocket launchings for 1964, compendium, 15554  
appropriations, 1968—  
amendments, 7600  
hearings, 9145, 15017, 16392  
reports, 14978, 17576, 17580  
appropriations, 1968, authorization—  
hearings, 10677, 10797  
index, 13714  
law, 14911  
reports, 10622, 12277, 12390, 14946  
bidding, etc., costs charged to government contracts, GAO review, 8143  
biomedical application teams, 15495  
careers in aero-space technology, guide, 1909, 11574  
contractor accounting systems, guidelines for evaluation, 6705  
contractor report CR (series), 1419-36, 2595-2613, 5157-58, 6706-28, 8405-29, 9799-9820, 11396-422, 12847-876, 14371-401, 15497-512, 16890-920, 17933-947  
contributions to—  
advanced valve technology, 15518  
metals joining, 6738  
structural design concepts, 16932  
use of plasma jet technology in chemical processing, 12867

# INDEX 1967

- National Aeronautics and Space Administration—Continued**  
 cost information from contractors, procedures for reporting, 9929  
 EP series, 9821, 11423, 12877, 17048  
 headquarters telephone directory, 16926  
 Inventions and Contributions Board petitions for patent waiver, findings of fact, etc., 2731, 3684, 11577  
 management intern program, 6729  
 motor vehicle utilization in Cape Kennedy Interagency motor pool, GAO report, 2353  
 NASA BITS, brief ideas, thoughts, suggestions, 16889  
 NASA cost plus award for contracting guide, 16888  
 NASA facts, 1437-38, 8430-31, 9822, 12878, 16922-925, 17949-950  
 NASA incentive contracting guide, 16927  
 NASA management issuances—  
   index, 11395, 15496  
   table of contents, 15513  
 NASA-University Conference on Manual Control, proceedings, 6733  
 NASA Western University Conference, summary report, 2616  
 NASA zero power reactor (ZPR-1), transport study of real and adjoint flux, 11535  
 patent policies, evaluation, 6043  
 positions in aerospace technology, 7536  
 potential savings through use of civil service employees rather than contractor-furnished employees for certain support services, GAO report, 11150  
 preparing contractor reports for NASA data presentation, 1443  
 press releases, 3745  
 procurement directive, 3591  
 procurement regulations, 3592, 18058  
   supplement, 18058  
 publications—  
   educational, lists, 2614, 16921  
   price list, 5419  
 reliability programs, evaluation, 8442  
 report of Apollo 204 Review Board to Administrator, 9931, 17020  
 research on noise-abatement approach profiles for multie engines jet transport aircraft, 12956  
 scientific and technical reports for 1966, selected listing, 12884  
 semiannual report—  
   departmental edition, 11580  
   document edition, 10518  
 SP series, 1439-43, 2615-21, 5189-98, 6730-39, 8433-45, 9823-25, 11424-434, 12879-884, 14402-408, 15514-520, 16928-935, 17951  
 lists, 5199, 11435  
 space flight investigations, opportunities for participation, 11576, 17018-19  
 space science and applications programs—  
   report to Space Science Board, 2732  
   statement, 12877  
 special publications, list, 5199, 11435  
   specifications and standards, 15520  
 standard procedures for microbiological examination of space hardware, 15521  
 standards for clean rooms and work stations for microbially controlled environment, 15522  
 support service contracts, use of civil service employees rather than contractor-furnished employees, hearing, 16330  
 tech briefs, 1444-72, 2622-81, 5200-27, 6740-6850, 8446-79, 9825A-63, 11436-484, 12885-918, 14400-446, 15523-553, 16936-969, 17954-18007  
 indexes, 11427, 16931  
 technical memorandum, 2682  
 technical notes, 1473-1514, 2683-2730, 5228-75, 6851-6907, 8480-8506, 9871-9918, 11485-555, 12919-967, 14447-497, 15534-581, 16970-17011, 18008-53
- National Aeronautics and Space Administration—Continued**  
 technical reports, 1515, 6908-10, 8507-8, 9918, 11556-559, 12968-971, 14498-499, 17012-16, 18054-56  
 technical translations, 5276-77, 6911-12, 8509-12, 9920-28, 11560-573, 12972-976, 14500-504, 15582, 17017, 18057  
 technology dissemination program, channels of acquisition in commercial firms, 14375  
 technology utilization program, new technology reporting—  
   management guidelines, 1418  
   reportable items, 5279  
 transportation problems, rockets, etc., 9932  
 Zero Power Reactor I, measurement of effective delayed neutron fraction, 2694  
**National Aeronautics and Space Council**, appropriations, 1968, hearings, 9145, 15147  
**National Agriculture Library**:  
 agricultural/biological vocabulary—  
   alphabetical list, 17026  
   categorized list, 17025  
 appropriations, 1968, hearings, 10629, 12397  
 books on cooperatives, general reading list, 12977  
 historic books and manuscripts concerning general agriculture in collection, 8515  
 library list (series), 1517, 8515, 14505  
 services offered, 5282  
**National Agricultural Weather Service**, Federal plan, 6226  
**National and Regional Export Expansion Councils**, directory, 16099  
**National Arboretum**, general information, 4128  
**National Archives and Records Service**:  
 genealogical records, 17027  
 microfilm publications—  
   list, supplement, 17030  
   pamphlet accompanying, 18060-72  
 preliminary inventories series, 14506-510, 18074  
 publications, list, 15583  
 record groups in National Archives and Federal record centers, list, 17029  
 special lists, 14511-512  
**National Association of Manufacturers**, campaign for fuller utilization of handicapped (address), 8616A  
**National banks**:  
 authority to underwrite and deal in securities issued by State and local governments, hearings, 16396  
 foreign activities, Federal reserve regulation, 8004  
 see also for individual banks, name of place where located or name of bank.  
**National Bison Range**, general information, 15259  
**National blueprint for public welfare**, 4897  
**National Brotherhood Week**, human relationships, problems of nations living together, etc. (remarks), 8283  
**National Brucellosis Committee**, proceedings of annual meeting, 15830  
**National Bureau of Standards**:  
 applied mathematics series, 14513  
 calibration and test services, inserts, 8518, 9937-39, 12980, 15585-587, 17032  
 dedication of new laboratories (remarks), 1957  
 general information, 2738  
 handbooks, 6914-15  
 journal of research, 2736, 3458-60  
 laboratories, Boulder, Colo., general information, 16097  
 laboratories open for dedication, inspection tour, 2740  
 miscellaneous publications, 1519-21, 2737-38, 6917, 8518-21, 9936-41, 11582-583, 12979-983, 15585-590, 17032-34, 18076

- National Bureau of Standards—Continued  
monographs, 1522, 2739, 5284, 8522-23,  
9942, 11584, 12984-985, 14514-516,  
15591-592  
national standard reference data series,  
1523, 8524, 17035-36, 18077  
organic act, amend—  
hearings, 10825, 13715  
reports, 14934, 15103, 16257  
publications, list, 9936  
publications newsletter, 3617  
Radiation Physics Laboratory, general in-  
formation, 2741  
research and development, review of Gov-  
ernment reports, 2742  
standard frequency and time services pro-  
vided by radio stations WWV, WWVH,  
WWVB, and WWVL, 12979  
standard reference materials—  
catalog and price list, 17033  
quarterly insert sheets, 1519, 11582  
general information, 11585  
homogeneity characterization of spectro-  
metric standards for white cast iron  
and stainless steel powder compact,  
2737  
new materials, publications, etc., 11588  
news for users, 12987  
technical highlights, annual reports, 9943,  
18079  
technical news bulletin, 3931  
technical news, press release, 3932  
technical notes, 1525-26, 2743-46, 5288-  
93, 6921-24, 8526-27, 9944-45, 11589-  
592, 12989, 14517-519, 17038-42, 18080-  
83  
technical publications, 1527  
National Cancer Institute:  
clinical, research, and staff associate, in-  
formational bulletin, 7073  
journal, 3457  
monographs, 1583, 7074-75, 14632, 18172  
Pathologic Anatomy Branch, histopathol-  
ogy laboratory procedures, 15689  
research and related programs, 7089  
research reports, 15708  
National Capital, *see* Capital of United  
States.  
National Capital Planning Commission:  
appropriations, 1968—  
hearings, 7734, 9302  
law, 12170  
reports, 10560, 10766  
National Capital Regional Planning Coun-  
cil:  
annual report, 1528  
regional development guide, 8530  
National Capital Transportation Agency:  
annual report, 5295A  
appropriations, 1968—  
hearings, 7734, 9302  
law, 12170  
report, 10766  
chronology, 6925  
publications, list, 6926  
transfer functions—  
hearing, 2132  
law, 478  
report, 654  
National CARIH Asthma Week:  
designate—  
law, 9034  
report, 7776  
National Center for Air Pollution Control,  
training program, July 1967-June 1968  
bulletin of courses, 18153  
National Center for Atmospheric Research,  
administration of contract by NSF, op-  
portunities for improvement, GAO report,  
16671  
National Center for Deaf-Blind Youths and  
Adults:  
establishment and operation—  
hearings, 15172, 17600  
law, 16144  
National Center for Deaf-Blind Youths and  
Adults—Continued  
establishment and operation—continued  
reports, 14972, 16366  
6 steps forward, 17186  
National Center for Health Statistics:  
life tables, 1959-61, data, bound volumes,  
5444-45  
organization and functions, 11748  
public health conference on records and  
statistics, proceedings, 11th national  
meeting, 18185  
training unit for nosologists, description  
of diseases, 8656  
National Center for Radiological Health,  
training and manpower program, bulletin  
of courses, 13085  
National Clearinghouse for Mental Health  
Information:  
crime and delinquency abstracts (periodi-  
cal), 3163  
occupational mental health notes, 17154  
National Clearinghouse for Poison Control  
Centers, bulletins, 3593  
National Clearinghouse for Smoking and  
Health:  
directory of on-going research in smoking  
and health, 11743  
library services, 11740  
National Coal Week, designate, report, 9288  
National Coin Week, designate, report, 10774  
National Collection of Fine Arts:  
art of Stanton Macdonald-Wright, retro-  
spective exhibition, 11595  
general information, 5296  
National Collegiate Athletic Association, con-  
troversy with AAU, status, hearing, 17646  
National Commission on Consumer Interests,  
create, hearings, 17594  
National Commission on Fire Control and  
Prevention, establish, reports, 14934,  
15103, 16257  
National Commission on Food Marketing,  
technical study series, 5297-98, 9947  
National Commission on Product Safety:  
establish—  
hearings, 7802, 15041  
report, 10758  
National Commission on Public Management,  
establish, hearings, 10869  
National Commission on Reform of Federal  
Criminal Laws:  
establish—  
law, 505  
report, 930  
National Commission on Urban Problems, re-  
port, extend time for filing, report, 16367  
National Committee for Clear Air Turbulence,  
report, 2226  
National Community Senior Service Corps:  
provide—  
hearings, 17669  
report, 914  
National Conference of Standards Labora-  
tories, proceedings, 12983  
National Conference of State Societies, Wash-  
ington, D.C., name, report, 9132  
National Conference on Air Pollution:  
clean air for your community, 11722  
communicator, information release, 3594  
control now for clean air, proceedings,  
summary, 14620  
proceedings, 15704  
National Conference on Crime Control, pro-  
ceedings, 16788  
National Conference on Legal Rights of  
Tenants, report, 14277  
National Conference on Medical Costs, chart  
book, 14185  
National Conference on State Technical Ser-  
vices, addresses and discussions, 12131  
National Conference on Weights and Meas-  
ures:  
announcement, 9934  
annual report, 11583

# INDEX 1967

- National Conference on Wheat Utilization Research, 4th, papers, 6
- National Congestive Heart Failure Seminar, report and recommendations, 8646
- National Congress on Stomatology, Rumania, proceedings, 12732
- National Consultants Associated, Ltd.: labor racketeering activities—  
hearings, 2119  
report, 10731
- National Council on Marine Resources and Engineering Development:  
annual report, 9948  
appropriations, 1968—  
hearings, 7734, 9302  
law, 12170  
reports, 10560, 10766
- National Council on the Arts:  
appropriations, 1968, hearings, 7734  
review of programs and planning, 6928  
scope and exposure of initial programs, review, 6929
- National Crime Commission, *see* President's Commission on Law Enforcement and Administration of Justice.
- National Data Center:  
establish, proposal—  
hearings, print additional copies, report, 10786  
problems of privacy, hearings, 10856
- National debt, *see* Public debt.
- National defense:  
agreement with—  
Brazil, 11854  
Canada, 7155, 8728, 17230, 7249  
France, 5550-51, 7168-69  
Great Britain, 11846  
Mali, 11873  
New Zealand, 15771  
Peru, 2930  
Philippines, 2915  
Saudi Arabia, 2926  
chemical, biological, and nuclear defense, Army field manual, 1758  
civilian aides to Secretary of Army, 13th national conference, summary, 15944  
code of Federal regulations, 6256, 9470-74, 9487, 11041-42, 12526  
defense industry bulletin (periodical), 3193  
defense materials systems and priorities, questions and answers, 7452  
defense systems resources in civil sector, evolving approach, uncertain market, 17371  
education act of 1958—  
administration of programs under title 3, notes and working papers, 17668  
amend, hearings, 15026, 15170, 16321  
counseling and guidance institutes, programs, 6189  
financial assistance for science, etc., instruction, guidelines, 13956  
graduate fellowship program for predoctoral study, 2187  
graduate fellowships, 1967-68 graduate programs, 4715  
institutes for advanced study—  
preparing proposals, manual, 9401  
summer 1967, handbook for directors, 1003  
loans to nonprofit private elementary and secondary schools for equipment and materials, 1007  
modern foreign language program, 7905  
student loan program, college work-study program and list of participating institutions, 1001
- international defense commitments of U.S. (statement), 1628
- joint defense space research facility, agreement with Australia, 7189
- mobilization programs of—  
Business and Defense Services Administration, hearings, 13543
- National defense—Continued  
mobilization programs of—continued  
Emergency Planning Office, hearing, 12185  
General Services Administration, hearing, 12186  
Interior Department, hearing, 14916  
mobilization report, 2036  
perspectives in defense management (periodical), 12658  
preparedness program, investigation, reports of subcommittee, 2105-7, 4629, 10809-815  
program, 1968-72 and 1968 budget, statement, 4527  
transportation, monograph, Industrial College of Armed Forces, 16731  
worldwide military commitments, hearings, 944, 10816  
*see also* Civilian defense—National security.
- National defense education act, *see* Education.
- National Driver Register, State driver records exchange service, 18087
- National Economic Goal Commission, establish, hearings, 2133
- National economy, *see* Economic conditions.
- National electric rate books, 1050-57, 2248-53, 3595, 4772-78, 6264, 9457-58, 11018-27, 12510-512, 14027-29, 15245-246, 16582-585
- National Elk Refuge, general information, 8028
- National emergency standby regulations and instructions, personnel and manpower, FPM supplement, 3306
- National Employ the Handicapped Week, designate, report, 10776
- National Employ the Physically Handicapped Week, law establishing, amend, report, 10776
- National Endowment for the Arts, review of programs and planning, 6928
- National Endowment for the Humanities:  
annual report, 6931  
appropriations, 1968, hearings, 7734  
initial programs, 6932  
1968 program information, 12991
- National Environmental Satellite Center, ESSA technical report, NESC series, 9430, 10967
- National Export Expansion Council:  
Action Committee on Export Promotion, report, 7564  
Action Committee on Taxation, recommendations, status report, 9021  
Action Committee on Trade and Investment in Developing Countries, report, 9026  
directory, 16099
- National Farm Safety Week, July 23-29, 1967, keep your sights on safety, safe use of firearms, facts, 10187
- National Farmers Week, designate, report, 10772
- National Fire-Weather Service, Federal plan, 9432
- National flags and ensigns, 14569
- National flood insurance:  
act of 1967—  
hearings, 12400, 16315  
reports, 15132, 15752, 17574
- National food buyers quiz, questions and answers, 963
- National Forest Reservation Commission:  
annual report, 13722  
print as Senate document, report, 13818
- National forests:  
America's playgrounds, skiing, 5667  
California—  
areas of limited public use, 16651  
forest recreation sites, accidents caused by hazardous trees, 11125  
recreation facilities development, personal history, 17799



National forests—Continued  
 code of Federal regulations, 9476  
 enjoy your national forests, announcement and order form, 11710  
 Federal management has contributed much to strengthening local government and economics (statement), 13246  
 Intermountain region—  
   ski areas, America's winter playground, 6372  
   yearbook, national forests in profile, 15280  
 land exchange in system, 17329  
 land exchanges, accept cash equalization, report, 2084  
 management policy and other problems, hearings, 10628, 15010  
 Minnesota, private pleasure boating, 8068  
 national forests are for people, you have stake in conservation, 1087  
 Pacific Northwest, 1966, multiple use highlights, 15279  
 protecting national forest resources, 16651  
 recreation use estimation on Forest Service lands in United States, 15284  
 State and privately-owned land protection within area, 4861  
 stumpage prices for sawtimber sold (periodical), 3909  
 summer home permits terminated, compensation to permittee, hearing, 17586  
 system, areas as of June 30, 1966, 6364  
 timber sale accomplishments, 9531  
 timber sale, story, 15868  
 vacations, 11107  
 wilderness, America's playgrounds, 8838  
 see also Forests and forestry—Timber—also names of forests.  
 National Foundation for Social Sciences, establish, hearings, 10846  
 National Foundation on the Arts and the Humanities:  
   act of 1965—  
     amend, hearings, 17599, 17663  
     preparing proposals, manual, 9401  
   appropriations, 1968—  
     hearings, 9302  
     law, 12170  
     reports, 10560, 10766, 12252  
   purpose and activities as it pertains to the arts, 6927  
 National Gallery of Art:  
   appropriations, 1968, hearings, 7734  
   brief guide, 14521  
 National Grange, 5-cent commemorative postage stamp (poster), 8611  
 National Guard:  
   air, general officers, list, 6933  
   air reservist (periodical), 3011  
 Army—  
   and Air civilian in peace, soldier in war, bibliographic survey, 5732  
   field training, administrative instructions, 8531  
   general officers, list, 6933  
   installations and facilities program, operating procedures, 6935  
   military publications, administrative guidance, 11596  
   register, 11598  
   Special Forces units, operational funds, pamphlet, 5299  
   technician program, job descriptions, pamphlet, change, 11597  
   deceased members, furnishing uniform and presentation of flag, report, 16229  
   job rights, key answers for employers, etc., 14714  
   technicians, clarify status—  
     hearings, 6030, 17640  
     reports, 658, 6012  
 trophies—  
   Eisenhower trophy to outstanding unit of company size, announcement of winners, pamphlet, 14523

National Guard—Continued  
 trophies—continued  
   National Guard trophy, Perahing trophy, National Guard (State) trophy, announcement of winners, 14522  
   National Guard Association of United States, trophy, announcement of winners, 14522  
   National Guard Bureau, pamphlets, 5299, 6934-35, 8531, 11596-597, 14522-523  
   National health survey, vital and health statistics, 5467-70, 7098, 8660-61, 10067-69, 11763-764, 13099, 14637-639, 15715, 17168-170, 18188-189  
   National Heart Institute, research grants, congenital heart disease, 15677  
   National Herbarium, contributions from, 12997, 14532, 15601, 17047-49  
   National Highway Safety Advisory Committee:  
     establish, report, 646  
     increase size, etc., report, 16377  
   National Highway Safety Agency:  
     administrator, William Haddon, jr., hearing, 6095  
     establish, report, 646  
   National Highway Safety Bureau:  
     director, nomination of William Haddon, jr., hearing, 15153  
     establish—  
       law, 389  
       report, 906  
   National Historical Publications Commission, microfilm publications, catalog, 6936  
   National Home-Improvement Month, designate, report, 10777  
   National housing act, see Housing—Loans.  
   National income and product, accounts of United States, 1929-65, statistical tables, 1829  
   National Institute of Allergy and Infectious Diseases, role of collaborative research program, 8649  
   National Institute of Child Health and Human Development:  
     research and training programs, 5462  
     training support, 13194  
   National Institute of Dental Research:  
     brief review of research studies, 18173  
     spectrum of dental research, 18187  
   National Institute of Mental Health:  
     appropriations, 1968, hearings, 10631  
     grants and awards for graduate and undergraduate training, 7066  
     mental health manpower, current statistical and activities report, 2829  
   research grants—awards  
     listing by State, 1948-63, etc., 13083  
     program, 1965, descriptive data sourcebook, 15707  
   support programs, 18174  
   training grants—  
     for support of mental health personnel, current status, 2839  
     program, 1965, statistical sourcebook, 7076  
   workshop series of Pharmacology Section, 17173  
   National Institute of Neurological Diseases and Blindness:  
     eye research, 8631  
     neurological information network, 15699  
     research profiles, 18175-183  
     research, summary, 18175  
   National Institutes of Health:  
     almanac, 10055  
     appropriations, 1968, hearings, 10631  
     associate training programs, medical and biological sciences, 5420  
   Division of Research Services, services of 1966, record of achievement, 10046  
   grants and awards program, guide, 17143  
   health scientist administrators and grants associates, examination announcement, amendment, 5922  
   legislative activities of 89th Cong., 2d sess., that interest NIH, summary, 7094



# INDEX 1967

National Institutes of Health—Continued  
 library, periodicals currently received, 11757  
 library translations index, 1966 supplement, 15700  
 programs, work, etc., 11744  
 research grants, administration, report, 17575  
 research highlights on studies conducted, etc., 10061  
 research methods and instrumentation, developments, symposium, 17163  
 research programs, report, 14616  
 resources for medical research, report, 10062  
 scientific directory and annual bibliography, 8643, 13090  
 special meeting of Federal Fire Council, 12594  
*see also* Clinical Center, National Institutes of Health.  
 National Interagency Council on Smoking and Health, conference, highlights, 7077  
 National Intergovernmental Affairs Council, establish, hearings, 4839, 13864  
 National Key Deer Refuge, birds of Florida  
 Keys national wildlife refuges, list, 17780  
 National Labor Conference, conventions, etc., adopted, withdrawal of treaty, text, 15064  
 National labor relations act, *see* Industrial relations.  
 National Labor Relations Board:  
 appropriations, 1967, law, 491  
 appropriations, 1968—  
   hearings, 9144, 13841  
   reports, 10612, 15082  
 arbitration and N.L.R.B., 2d look (paper), 6937  
 career in labor-management relations as field examiner, 2748  
 case developments, quarterly report, 3799  
 collective bargaining elections, milestone in industrial democracy (remarks), 6939, 8532  
 decisions and orders, 2749, 5300, 11600, 15594  
 decisions as seen from inside NLRB (remarks), 17043  
 decisions, digest, CS—series, 1529, 3204  
 election reports, 3589  
 elections, information for voters, 12994  
 field manual, 15595  
 general counsel, nomination of Arnold Ordman, hearings, 12421  
 member, nomination of—  
   Brown, Gerald A., hearing, 4651  
   Ganser, Howard G., hearing, 9327  
 press releases, 3746  
 report, 12992  
 statistical summary, quarterly, 3590  
 weekly summary of cases, 4058  
 National Library of Medicine:  
 bibliography of—  
   medical reviews, 15597  
   medical translations, annual index, 14526  
 catalog—  
   annual cumulation, 8533  
   biweekly listing, 3597  
   cumulative listing, 11601  
   printed books, 16th century, 15598  
 general information, 5301  
 Library Associate Program, curriculum, qualifications, etc., 5302  
 notes for medical catalogers (periodical), 3639  
 prints and photographs collection, 14527  
 National Manpower Resources Board, establish, reports, 10608, 12246  
 National Marketing Conference:  
 proceedings, 10465  
 report, 5961  
 National Mediation Board:  
 appropriations, 1967, law, 491  
 appropriations, 1968—  
   hearings, 9144, 13841  
   reports, 10612, 15082

National Mediation Board—Continued  
 mediator, examination announcement, 14868  
 report, 6942  
 National Mental Health Manpower Studies Committee, meeting, highlights, 2829  
 National Meteorological Center, ESSA technical memorandum, WBTM NMC series, 12479  
 National monuments and memorials:  
 American memorials and overseas military cemeteries, general information, 14787  
 code of Federal regulations, 9476  
*see also* names of monuments or memorials.  
 National Motor Vehicle Safety Advisory Council:  
 create, report, 645  
 opening session (remarks), 4455  
 National Museum:  
 act of 1966—  
   law, 392  
   report, 681  
 Aradidae (Hemiptera: Heteroptera), notes, 5307  
 bulletins, 1530, 8535, 9951, 11602, 12996, 14528-531, 15599-600, 17046  
 Pacifica tunicata specimens, descriptions, 9950  
 proceedings, 2751, 5304-16, 6043-71, 8536-50, 9952-53, 11603-612, 12998-999, 14533-546, 15602-607, 17050-51, 18089  
 title pages, etc., 13000, 14544-546, 17051  
 publications, price list, 15671  
 National Observances and Holidays Commission, establish, report, 7705  
 National Oceanographic Data Center:  
 archived data inventory, Arctic and Antarctic supplement, 6996  
 newsletter, 3598  
 NODC Ad Hoc Committee and working group activities, summary, 11631  
 publications, 2770, 6996-97, 8568-69, 11629-631, 14570, 15624  
 quarterly accessions, computer-produced indexes, 3636  
 National oceanographic program, 1042  
 National Park Foundation:  
 establish—  
   hearing, 15162  
   reports, 15006, 15120  
 National Park Service:  
 appropriations, 1968, hearings, 7734  
 historical handbook series, 1533  
 announcement and order form, 8621  
 National Capital parks, 1967 activities, 9955  
 policies and practices for rebuilding used motor vehicle tires, GAO review, 14162  
 press releases, 3747  
 programs, briefing session, hearings, 10655  
 records, preliminary inventory, 14509  
 seasonal employment, 8562  
 selection of national parklands and landmarks, criteria, 8554  
 Yellowstone National Park, elk population, control, hearings, 10803  
 National parks:  
 airports, authorization, increase, law, 467  
 camping fees, facilities, etc., 15610  
 code of Federal regulations, 9476  
 heritage to discover, 2184  
 public use, statistical report, monthly, 3786  
 selection of national parklands, criteria, 8554  
*see also* names of parks.  
 National policy for American education, 10935  
 National Portrait Gallery, general information, 8564  
 National poultry improvement plan, *see* Chickens—Poultry.

National Railroad Adjustment Board:  
 appropriations, 1968, hearings, 9144  
 awards, 2760, 5322, 6988-90, 8565, 9965,  
 11621-622, 14556-559, 15614-615,  
 17055-56  
 report, 6942  
 National Railway Labor Conference:  
 dispute with employees—  
 extend period under railway labor act—  
 laws, 9040, 10482  
 reports 9112, 9279, 10567, 10736  
 messages from the President, 9074,  
 10511, 10514  
 settlement—  
 hearings, 10660, 10868  
 law, 13534  
 reports, 12259, 12267, 12364, 13667  
 status of negotiations, hearing, 9328  
 emergency board report, 9415  
 National Reactor Testing Station, hydrology  
 of area, 16690  
 National Register of Scientific and Technical  
 Personnel, American science manpower,  
 1964, report, 5323  
 National Research Council:  
 report, 1963—  
 departmental edition, 6694  
 document edition, 6051  
 report, 1964—  
 departmental edition, 16876  
 document edition, 16347  
 National School Safety Patrol Week, designa-  
 te, report, 10778  
 National Science Foundation:  
 act of 1950, amend, reports, 7669, 9106  
 administer sea grant colleges and program  
 act—  
 law, 402  
 reports, 632, 679  
 administration of contract for operation  
 of National Center for Atmospheric Re-  
 search, opportunities for improvement,  
 GAO report, 16671  
 appropriations, 1968—  
 hearings, 9145, 15147  
 reports, 10000, 15131  
 grants and awards, 8566  
 report, 1966—  
 departmental edition, 8567  
 document edition, 7613  
 reviews of data on science resources, 2762,  
 5325-26  
 scientific documentation, information, re-  
 quirements, etc., price list, 6916  
 National search and rescue manual, amend-  
 ment, 12124  
 National security:  
 act of 1947, as amended, text, 4630  
 do you take security regulations seriously  
 enough?, poster, 4681  
 don't guess! ask your security supervisor,  
 poster, 13927  
 Government operations, investigation, au-  
 thorization, report, 4609  
 internal security act, amend, reports,  
 10618, 12263, 16250, 16290  
 internal security laws—  
 administration, investigation—  
 authorization, report, 4619  
 hearings and reports, 1961-66, index,  
 15168-169  
 gaps in, investigations, etc., hearings,  
 12418, 13873  
 NGB pamphlet, 6934  
 let's face it, security is up to you (poster),  
 10901  
 management—  
 correspondence course offered by Indus-  
 trial College of Armed Forces, 2422,  
 7863  
 defense transportation, Military Traffic  
 Management and Terminal Service,  
 monograph, 16731  
 maintenance management in Defense  
 Dept., monograph, 17858  
 production management, defense mate-  
 rial system, monograph, 9608

National security—Continued  
 safeguarding freeworld against totali-  
 tarian threat (address), 12531  
 security is always in season, poster, 7865  
 security takes no vacation! (poster),  
 15200  
 State Department security, 1963-1965,  
 administration, investigation, hearings,  
 2131  
 U.S. life lines, arteries of international  
 commerce, 8574  
 United States, impact of Chinese Commu-  
 nist nuclear weapons progress, report,  
 13542  
*see also* National defense.  
 National Security Agency, appropriations,  
 1968, military construction, hearings,  
 15016  
 National Security Seminar:  
 presentation outlines and reading lists,  
 2423, 15342  
 prospectus, 11241  
 National service life insurance, *see* Life in-  
 surance.  
 National Severe Storms Laboratory, ESSA  
 technical memorandum, IERTM-NSSL se-  
 ries, 6220-22, 10964, 15231, 16532  
 National Shipping Authority, current regu-  
 lations, index, 11343  
 National standard reference data series,  
 1523, 8524, 17035-36, 18077  
 National standard reference data system:  
 extend service—  
 hearing, 12405  
 reports, 10601, 14956  
 NSRDS news, 8525  
 National Teacher Corps:  
 change name, etc.—  
 law, 12176  
 reports, 12275, 13643, 13805  
 extend and amend program—  
 hearings, 7742, 9153, 12419, 17664  
 reports, 9118, 10557  
 handbook, 9411  
 higher education act of 1965, administra-  
 tion of programs, 1966, notes and work-  
 ing papers, 12422  
 missionaries in classroom, 6188  
 National Traffic Safety Agency:  
 establish, report, 645  
 initial Federal motor vehicle safety stand-  
 ards, Jan. 31, 1967, report on develop-  
 ment, 9024  
 National Traffic Safety Bureau, establish,  
 law, 389  
 National Transportation Safety Board:  
 chairman, nomination of Joseph J. O'Con-  
 nell, Jr., hearing, 10823  
 establish—  
 law, 389  
 report, 906  
 members, nominations of Francis H. Mc-  
 Adams, Louis N. Thayer, John H. Reed,  
 Oscar M. Laurel, hearing, 10823  
 organization and purpose (remarks), 18094  
 powers, goals and future (address), 13015  
 responsibilities and activities (remarks),  
 18093  
 National Trust for Historic Preservation in  
 United States, grants-in-aid for responsi-  
 bilities, law, 384  
 National turkey improvement plan, *see*  
 Turkeys.  
 National UNICEF Day, designate, report,  
 9291  
 National Union Catalog:  
 Library of Congress, 1393, 3601  
 manuscript collections, 2531  
 register of additional locations, 16838  
 National Visitor Center:  
 commission to study facilities and serv-  
 ices, create—  
 law, 494  
 report, 631  
 report of National Visitors Center Study  
 Commission, 16341

# INDEX 1967

- National warning system, *see* Warning system.
- National Water Commission :  
 establish—  
   hearings, 9162  
   message from the President, 5992  
   reports, 4613, 12278, 13661
- National Weather Records Center, functions, capabilities, and scope, 13991
- National Wilderness Preservation System, annual report, 7607
- National ZIP code directory, 14609
- National Zoological Park :  
 concessions, negotiate cooperative agreements granting, law, 476  
 reorganization—  
   hearing, 736  
   report, 2021
- Nationalism, Arab, Soviet view, 9629
- Nationality :  
 code of Federal regulations, 7976  
 immigration and nationality act, amend—  
   hearings, 7751, 17606  
   law, 474  
   reports, 678, 688, 876
- Nations, *see* Foreign countries.
- Nation's census taker, 5889
- Native sandhills grasses, 16621
- NATO, *see* North Atlantic Treaty Organization.
- Natural Bridges National Monument, general information, 8559
- Natural convection in ice melting from below, 7378
- Natural gas, *see* Gas.
- Natural History Museum, annual report, 14548
- Natural resources :  
 agriculture/2000, resources in action, outline of conservation policies, 10200  
 Alaska, 1139  
 Alaska and Rampart project, 12636  
 America's department of natural resources, Department of Interior, activities, etc., 2391  
 California, 15325  
 conservation—  
   and development, FHA loans, 10193  
   conservation aid series, 8693  
   conservation information series, 14650  
   let's urbanize conservation education (remarks), 16713  
   publications, list, 7051  
   yearbook, 8207  
   announcement and order form, 10035  
 developing, message from the President, 5992  
 Federal legislation, 1950-66, digest, 13948  
 High Rock Nature Conservation Center, New York City's educational workshop for children, 13959  
 management analyst development program, career opportunity, 9586  
 our environment, reclamation and rehabilitation of strip and surface mining areas, special report, 14201  
 outdoors USA, agriculture yearbook—  
   departmental edition, 17325  
   document edition, 17566  
 perspectives on natural resources and human resources, seminar, 6597  
 population growth and earth resources, 14238  
 ranger 'rithmetic for—  
   1st and 2d grade teachers, 2293  
   3d grade teachers, 2294  
   4th grade teachers, 2295  
   5th grade teachers, 4825  
   6th grade teachers, 11108  
   7th grade teachers, 2296  
 resource and conservation development projects, cost sharing grants, report, 16368  
 resource bulletins, 2335-39, 4857-60, 8121-24, 14146, 15290, 16665-666, 17807-809
- Natural resources—Continued  
 resource publication (series), 1081, 2280-81, 4808, 6356, 8033-34, 12548, 15267, 16624-626, 17784-785  
 South Dakota, 8209  
 third wave, America's new conservation, 8207  
   announcement and order form, 10035  
 Wyoming, 2392  
*see also* Land.
- Naturalization :  
 active-duty service in U.S. Armed Forces, hearings, 7750  
 becoming a citizen series, 11211, 12629-630  
 candidates, English and Federal Government, Federal textbook on citizenship, 14190, 17844  
 candidates, our Constitution and Government, Federal textbook on citizenship, 12631-632  
 employees of U.S. nonprofit organizations disseminating information that promotes U.S. interest, permit, hearings, 17606  
 exemption from English language requirement of immigration and nationality act, amend, hearing, 7751  
 investigation—  
   authorization, report, 4603  
   report on findings, etc., 9286  
 publications, price list, 10040, 15672  
 requirements and general information, 14192  
*see also* Citizenship.
- Naumann, Robert J., near-earth meteoroid environment, 1512
- Nauru Island, *see* Australia.
- Nautical almanacs, *see* Almanacs.
- Nautical charts, *see* Maps and charts.
- Navajo Dam and Reservoir :  
 technical record of design and construction, 7103  
 errata, 8667
- Navajo Indians, rights and interests in certain lands held in trust, determine, report, 13832
- Navajo National Monument, general information, 14551
- Navajo Reservation, royalties from lands, expenditure for health, etc., report, 881
- Naval Academy, Annapolis :  
 catalog, 5327, 17061  
 permitting persons from countries friendly to U.S. to receive instruction—  
   law, 506  
   report, 692  
   register, 15617
- Naval Air Systems Command, employment opportunities, 3234
- Naval art and science :  
 antimechanized operations, 16841  
 Marine Corps, personnel support, manual, logistics, 6624  
 naval research logistics quarterly, 3606
- Naval aviation, *see* Aeronautics.
- Naval aviation news, 3605
- Naval bases, advanced, defense, 6625
- Naval ceremonies, honors, and salutes, flags, pennants, customs, change, 18103
- Naval Control of Shipping Organization, training plan for Naval Reserve officers, qualifications and professional development, 5341
- Naval districts, *see* Navy Department.
- Naval education :  
 educational services manual, 15632  
 electronics, trainee's guide for fire control technician training, 2776  
 naval training bulletin, 3611  
 programmed instructional material, catalog, 18106  
 reading and writing for success in Navy—  
   book 1, 2778  
   book 2, 2779  
 recruit's day-to-day experiences, 2780  
 trainee's guide for Naval school, 11666

Naval education—Continued  
training equipment and individual differences, study, 9980  
training publication for advancement in rating, 11667

Naval engineering:  
principles, 7021  
specialist program, Naval Reserve, organization, administration, and training guide for naval engineering companies, 11660

Naval establishment, *see* Armed Forces—Navy Department.

Naval Facilities Engineering Command:  
design manuals, 2764-66, 13016, 14565-566, 17063-66, 18095  
cumulative index, change, 2766  
progress report, 6994

Naval history:  
chiefs of naval operations and Admiral's house, 9976  
Civil War naval chronology, 1541  
naval documents of American Revolution  
American theatre, Sept. 3-Dec. 7, 1775,  
European theatre, Aug. 11-Oct. 31, 1775,  
2773

Naval hospitals:  
hospital and medical facilities, design manual, 17064  
medical residencies and specialty courses, 1396

Naval installations, *see* Installations (military).

Naval Junior ROTC, *see* Reserve Officers' Training Corps, Navy.

Naval Material Command:  
officers, perquisites of office, retaining rank, pay and retirement privileges—law, 454  
report, 935

Naval Observatory, publications (series), 11628, 15623

Naval Oceanographic Office:  
career opportunities, 1536  
chart correction list, 5337, 14582  
notice to aviators, index, 9967  
publications series, 1537-40, 2771-72, 5328-36, 6998-7006, 8570-73, 9968-75, 11632-648, 13018-23, 14571-581, 15625-630, 17069-77, 18096-102  
special publication SP series, 13024  
technical reports and special publications, catalog, 11632

Naval officers, *see* Navy.

Naval Operating Base, Newfoundland, ferry service, agreement with Canada, 5534

Naval operations, 13027

Naval Ordnance Systems Command:  
employment opportunities, 3235  
NAVORD report, 1542  
ordnance pamphlet OP series, 7009

Naval Personnel Bureau:  
career publication, 3025  
personnel administration, functions, etc., 11661  
training manuals and correspondence courses, list, 11657, 14585

Naval petroleum reserves, no. 4 and adjacent areas, northern Alaska, 1944-53, exploration (series), 8159

Naval Research Laboratory:  
memorandum, report series, 5344  
progress in high-power laser research, 1553  
progress, report, monthly, 3821  
report series, 1548-54, 5345-64, 8586-98, 9983-10018, 11671-681, 13031-36, 14591-597, 15636-638, 17082-96, 18110-114  
satellite position display, simplified prediction equations for, 5349  
science education program, 17097  
terrain clutter study phase 1, 14591  
test and evaluation report, 8599

Naval research logistics quarterly, 3606

Naval Research Office, ACR series, 11669, 13030

Naval research reviews (periodical), 3607

Naval Reserve:  
chaplains handbook, change, 8580  
Fleet Divisions, guide for afloat training, 7017  
naval engineering specialist program, organization, administration, and training guide for naval engineering companies, 11660  
officers, qualifications and professional development, 5341  
officers, retired, register, 1546  
Naval reservist (periodical), 3608  
Naval schools, *see* Naval education.

Naval Ship Systems Command, technical news (periodical), 3609

Naval stations:  
Long Beach, Calif., adjust legislative jurisdiction of U.S. over lands within—  
hearing, 16308  
reports, 16268, 17625

Naval stores:  
act, repeal, hearing, 708  
annual report, 11881  
demand and price situation, 5660  
report, monthly, 3610

Naval Submarine Medical Center:  
reports, 9753, 11346-349, 12790-794, 14317-321, 16845  
research reported, 1966, summaries, 16846  
special reports, 16846

Naval Tactical Data System, use as satellite display, 14593

Naval training, *see* Naval education.

Naval Training Device Center:  
publications, index, 2783  
technical reports, 2784, 5343, 7024, 8585, 9980-82, 11670, 15635, 18109  
training device developments (periodical), 18115  
training device guide, 8600, 15639

Naval vessels, *see* Ships—Submarine boats—Warships.

Naval Weapons Bureau:  
directory, 3066  
employment opportunities, 3236

Navarro, Alfredo A., relief, 10533, 13509, 13753

Navarro, Antonio L., relief, 10723, 16207, 17511

Navarro, Eloy C., relief, 15073

Navarro, Mario P., relief, 304

Navigable waters, *see* Navigation.

Navigation:  
act of 1967, proposed draft, 10828  
aids, Coast Guard list—  
Great Lakes, 9003  
Mississippi River system, 9004  
aids to navigation manual, appendix, 8999  
aids to navigation services of Coast Guard, improve—  
hearings, 745  
law, 382  
reports, 669, 4585

Arkansas River entrance, hydraulic model investigation, 17737

Arkansas River, lock and dam no. 4, hydraulic model investigation, 2221

Belleville Locks and Dam, Ohio River, hydraulic model investigation, 1030

Columbia Lock and Dam, Ouachita River, hydraulic model investigation, 6212

Doppler method in navigational use of artificial earth satellites, USSR, 11280

Holt Lock and Dam, Warrior River, Ala., hydraulic model investigation, 4744

Inertial, application of Kalman filtering to error correction, 6904

Inertial, development and nature, French expert outlines, 9672

laws, equipment, Coast Guard approved lists, 9002

McAlpine Locks and Dam, Ohio River, hydraulic model investigation, 6210

## Navigation—Continued

- maps, Gulf intra-coastal Waterway, New Orleans, La. to Port Arthur, Tex., etc., 8383
- Millers Ferry Lock and Dam, Alabama River, hydraulic model investigation, 10961
- navigable waters—
  - code of Federal regulations, 6287, 9475
  - pollution of Moriches Bay and eastern section of Great South Bay and their tributaries, conference proceedings, 6339
- notice to mariners, 3641, 7007
- Great Lakes and tributary waters, 3642, 9006
- radio aids—
  - Atlantic and Mediterranean area, changes, 5336, 9974, 11646, 14580, 18102
  - Pacific and Indian Oceans area, changes, 7006, 11647, 17075
- rules of the road—
  - Great Lakes, 221
  - western rivers, 4421
- satellites, future potentials, 11394
- space—
  - accuracy for infrared equipped Apollo aircraft for reentry tracking, 1507
  - Apollo lunar module, linearized error analysis of onboard primary navigation systems, 15556
  - celestial-inertial, for low-thrust interplanetary vehicles, error analysis, 8424
  - manual, theory, 14390
  - midcourse, using statistical filter theory, manual theodolite, and symbolic computer control, 6905
  - sextant, measurements during lunar module rendezvous, analysis, 6903
  - star sensor fields of view determined by analytical approach, 11557
- Tennessee River experience, navigation and economic growth, 5567
- underwater, deep ocean acoustic sources, method for determining location, 8588
- see also Air navigation—Loran.
- Navigator (periodical), 3612
- NAVNEWS 1967 art portfolio, 7025, 17098
- NAVORD report, 1542
- NAVTRADEVEN, see Naval Training Device Center.
- Navy:
  - advancement in rate or rating, manual, 7019, 18107
  - Chief of Naval Operations, appointment, etc.—
    - law, 12164
    - report, 10611
  - civil engineer (periodical), 3613
  - civilian manpower management (periodical), 8602
  - constructing and using achievement tests, guide for instructors, 1544
  - dental administration, manual, changes, 8576, 14584
  - editors, NAVNEWS 1967 art portfolio, 7025
  - addendum, 17098
  - educational services manual, 15632
  - enlisted members, computing retired pay, report, 16270
  - enlisted personnel classification manual, 5339, 14586
  - fabrication, welding, and inspection of machinery, piping, and pressure vessels for ships, military standard, 2154
  - field press censorship, manual, 13293
  - France, hull testing basin, means of experimentation and research, 11258
  - management review (periodical), 3614
  - medical residencies and specialty courses, 1396
  - medicine, statistics, quarterly, 3904
  - messes ashore, manual, 9977

## Navy—Continued

- naval operations, 13027
- notice to aviators, 3640
- index, 9967
- nuclear power and Navy (remarks), 7439
- occupations, enlisted programs handbook, 8581
- ocean science program, accomplishments and prospects, 14598
- officers—
  - classifications manual—
    - changes, 2777, 18108
    - cross reference index, 7014
  - professional reading guide, 17079
  - register—
    - departmental edition, 11662
    - document edition, 10501
    - retired, register, 1546
- petty officers—
  - 1 & C, military requirements, Navy training course, 8579
  - 3 & 2 military requirements, Navy training course, 5340
- prime contractors, selling to, 17100
- procurement directives, 3615
- public works management, 2781
- ribbons of decorations and awards (poster), 11663
- seapower, guardian of freedom, 9976
- ship's serviceman 1 and C, training course, 14589
- ship's servicemen's handbook, 14588
- sites, engineering weather data for heating and air conditioning design, etc., 11947
- supplying the Navy, description of total complex, etc., 13029
- systems, electronic equipment packaging, design guidelines manual, 17099
- terminal facilities guide, Defense Supply Agency handbook, 17696
- training publications for advancement in rating, 11667
- treaties and agreements of interest to, compilation, 11291
- U.S., in southeast Asia, report, 10815
- U.S. ships and aircraft, lithographs, 11650
- see also Naval bases—Uniforms.
- Navy Civil Engineer Corps, see Civil Engineer Corps, Navy.
- Navy Department:
  - annual report, 2149
  - appropriations, 1968, military construction, hearings, 15016
  - Chief of Naval Operations, nomination of Thomas H. Moorer, hearing, 15148
  - defense supply system, savings available by eliminating low-cost, low-demand spare parts, GAO report, 17815
  - F-4 aircraft, supply and maintenance support, need for improvement, GAO report, 11147
  - food operations reference manual, increments, 15640-641
  - inventory accounting system for aeronautical equipment, GAO review, 16676
  - Judge Advocate General Office, organization and functions, 15633
  - naval districts, delineate boundaries by law, etc.—
    - hearings, 13685, 16395
    - law, 17555
    - reports, 13684, 13688, 16284, 16371
  - nuclear submarine propulsion equipment procurement under Public law 87-653, GAO report, 16674
  - preserve pay and retirement privileges for former deputy chiefs of bureaus—
    - law, 454
    - report, 935
  - procurement of spare aircraft parts for outfitting aircraft carriers, potential savings, GAO report, 8136
  - public information, direction for commanders, etc., 3209
  - safety review (periodical), 3844

**Navy Department—Continued**

Secretary, nomination of—  
 Ignatius, Paul R., hearing, 15149  
 McNaughton, John T., hearing, 15148  
 shipbuilding contracts, price increases,  
 GAO review, 2351  
 Under Secretary, nomination of Charles  
 F. Baird, hearing, 15148  
 Navy Nurse Corps, see Nurse Corps, Navy.  
 Navy Supply Corps, newsletter, 3616  
 NAWAS, see Warning systems.  
 NBS, see National Bureau of Standards.  
 NDEA, see Education.  
 Neal, J. L., pr., two simple, time-saving tech-  
 niques for studies of soil micro-organisms,  
 16656  
 Neal, Luther, jr., turbulent-skin-friction and  
 heat transfer charts adapted from Spald-  
 ing and Chi method, 11518  
 Neilson, Robert J., textile mills, machinery,  
 fiber, and fabric consumption, 4272  
 Neely, John E., models for analysis of CN  
 violet radiation behind shock waves, etc.,  
 9905  
 Near-earth meteoroid environment, 1512  
 Near East, see East (Near East).  
 Near-space environment, 11575  
 Nearctic region:  
 Gelechiidae, Lita group (Lepidoptera):  
 Gelechioides, revision, 6949  
 parasites of genus Rhyacionia, key, with  
 species annotations, 16649  
 Nebraska:  
 area measurement reports, 12034  
 census of agriculture, 1964, State and  
 county statistics, 13405  
 census of mineral industries, 1963, area  
 statistics, 5832  
 climatological data, 3096  
 county business patterns, 1867, 12054  
 electric rate book, 4775, 16584  
 mineral industry, minerals yearbook chap-  
 ter, 2559  
 ponderosa pine transplants, ten-year  
 growth of 2 sources of large grade, 2312  
 postal map, 15662  
 precipitation data, hourly, 3401  
 sedimentary rocks, chemical composition,  
 14172  
 statehood, 5-cent commemorative post-  
 age stamp (poster), 13050  
 Nebraska, midstate division, see Missouri  
 River Basin project.  
 Neches River, chemical quality of surface  
 waters of basin, reconnaissance, 17830  
 Nectarines, production, use, value, 1965-66,  
 by States, 14695  
 Need a little help? 8839  
 Need for entangling alliances (address),  
 6190  
 Needed, a team effort, 17841  
 Needles, Calif., conveying mineral interests  
 to, report, 15003  
 The Needles, Utah, regional geophysical in-  
 vestigations, 2368  
 Neglected majority (address), 7903  
 Negotiated contracts, see Government con-  
 tracts.  
 Negroes:  
 colleges and universities, directory, 9679  
 graduates of predominantly Negro col-  
 leges—  
 class of 1964, special report, 14625  
 directory, 2483  
 housing discrimination (statement), 13057  
 in apprenticeship, 16793  
 in the West—  
 family, 15453  
 social and economic conditions, 15453  
 occupational progress, 16829  
 plight in today's ghetto (remarks), 17841  
 population—  
 estimates by age and sex, 10365  
 Mar. 1965, characteristics, 176  
 Mar. 1966, characteristics, 4348

**Negroes—Continued**

prose, poetry, and black power (address),  
 9407  
 pupils, enrollment in Southern and bor-  
 der States, 4711  
 success in employment, 15223  
 woman, in U.S., new roles, new challenges  
 (address), 1668, 10142, 17296  
 workers, impact of changing economy,  
 statistics, 16831  
 Nehmer, Stanley:  
 address, etc.—  
 May 9, 1967, 10470  
 Sept. 13, 1967, 16111  
 Neilburg, Samuel C., relief, 859  
 Neighborhood Youth Corps:  
 amendments to economic opportunity act—  
 law, 498  
 narrative summary, 9382  
 enrollees with epilepsy, project sponsors  
 guide to placement, 2488  
 fact sheets, 4692, 10907  
 from world of poverty to life of hope,  
 6390  
 in inner-city, 14729  
 national conference, report, 1352  
 NYC project sponsors, directory, 2486  
 to choose or not to choose (address), 17298  
 Neighborhoods:  
 facilities, enriching community life, Fed-  
 eral assistance program, 2330  
 health centers—  
 demonstration program, general infor-  
 mation, 9383  
 questions and answers, 7877  
 low-income neighborhoods, strengthening  
 community services, field guide to con-  
 certed services, report of joint task  
 force, 17840  
 model neighborhoods—  
 in demonstration cities, program guide,  
 4909  
 under demonstration cities act, 6430  
 neighborhood center, community action,  
 2164  
 poor, prices, 14305  
 service centers, 5595  
 Neliac program, see Electronic computers.  
 Nelson, Alice F., foreign agriculture, includ-  
 ing foreign crops and markets, 3344  
 Nelson, Arne B.:  
 chronic illness among residents of nursing  
 and personal care homes, 11764  
 prevalence of chronic conditions and im-  
 pairments among residents of nursing  
 and personal care homes, 14639  
 Nelson, Arthur, image interpreter reference  
 and auxiliary information, 4226  
 Nelson, Arthur E., Cretaceous and Tertiary  
 rocks in Corozal quadrangle, northern  
 Puerto Rico, 1112  
 Nelson, Donald J., jr., environmental radia-  
 tion surveillance, 10048  
 Nelson, Howard D., use of malathion-treated  
 drying trays to protect raisins from in-  
 sects during drying and storage, 15859  
 Nelson, James B., determination of kinetic  
 parameters of 6 ablation polymers by  
 thermogravimetric analysis, 9896  
 Nelson, John T., relief, 9231  
 Nelson, Morland W., water supply outlook  
 and Federal-State-private cooperative snow  
 surveys for Idaho, 4046  
 Nelson, Ralph D., jr., selected values of elec-  
 tric dipole moments for molecules in gas  
 phase, 17035  
 Nelson, Robert E., plantation timber on  
 island of Hawaii, 4858  
 Nelson, S. S., model membrane studies re-  
 lated to ionic transport in biological sys-  
 tems, 6443  
 Nematoid worms, plant-parasitic nematodes  
 associated with forest trees, world dis-  
 tribution, 16645



- Nemikol-5, treatment of dogs after lethal doses of sarin and soman, changes in conditional reflex activities, Bulgarian study, 6563
- Nemoto, Edwin M., carotid and femoral artery blood flow in hyperthermic cats, 5710
- Neodymium, metals, high-purity, electro-winning from their oxides, 11384
- Neon:
- dilute, viscosity and thermal conductivity coefficients, 11589
  - helium-neon laser discharge parameter study, 17086
- Neon isotopes:
- abundance in natural gases, rel. to helium genesis, 9785
  - cancel errors in gas laser, 5226
- Neotropical region:
- microlepidoptera, revision of genus—*Idolatteria*, 8538
  - Pseudatteria*, 6944
- Nepal:
- accessions list, Library of Congress American Libraries Book Procurement Center, New Delhi, 3618
  - background notes, 15757
  - capsule facts for Armed Forces, 17370
- Nephelines, sintering, USSR study, 9645
- Nephritis, see *Pyelonephritis*.
- Neridae, see *Flies*.
- Nerves:
- autonomic periphery, structure and reactive properties, USSR study, 12716
  - characteristics of neuronal structure and synapses in brain stem and spinal cord and their significance in carnivores, USSR study, 12711
  - higher neural activity, USSR conference, 15384
  - mitochondrial nerve cells, electron microscopic investigation, USSR study, 15348
  - neuron differentiation in different parts of rabbit brain, USSR cytochemical study, 14221
  - photodiffusion in nerve cells under effect of local and irradiating excitation, USSR study, 14259
  - sympathetic ganglion cells and acridine orange-DNA complex spectra, USSR studies, 12702
- Nervous system:
- biochemistry, 4th all-Union conference, 1336
  - central—
    - dog, following rapid decompression to 1 mm.Hg, residual pathologic changes, 1743
    - effect of electromagnetic and magnetic fields, 14504
    - functions, effect of space-flight factors, 12973
  - effect of high and low afferentation on human organism from viewpoint of space psychophysiology, USSR studies, 1345
  - information and the nervous system, USSR study, 14250
  - neurological impairments, estimated range and cost of disability, 11745
  - neuropathology development in Tadzhikistan, 4983
  - problems of neurochemistry, USSR studies, 4996
  - self-regulation of higher nervous activity, USSR study, 17880
- Nesbitt, John A., remarks, Apr. 27, 1967, 11705
- NESC, see National Environmental Satellite Center.
- Neshaminy Creek, watershed project, bearing, 12427
- Nests, trap-nesting wasps and bees, life histories, etc., 8685
- Neth, Rosemarie G., relief, 12333, 16193
- Netherlands:
- amateur alien radio operators, authorization to operate, agreement, 8740
  - Educational Foundation and financing of exchange programs, agreement, 11861
  - establishing business in, 12138
  - mineral industry, minerals yearbook chapter, 11362
- Netherlands Antilles:
- background notes, 15758
  - foreign trade regulations, 13460
- Nets, see *Fish nets*.
- Networks:
- gratings and networks of aluminum ribbons as radio reflectors, 16902
  - meteorological rocket network firings, data report (periodical), 1032, 3190
  - parallel-T, use for developing quadrature voltages at variable frequencies, 5361
  - planning, algorithm for solution of resource distribution problem, 17868
  - recovery, orbital recovery problem, rapid determination of return and interarrival range for recall, analysis technique, 12969
  - spinning paraboloidal tension networks, 16903
  - see also *Electric networks*.
- Netzeband, F. F., mineral industry of Texas, 6667
- Neuman, Robert B.:
- bedrock geology of Shin Pond and Stacyville quadrangles, Penobscot County, Maine, 17825
  - silicified Ordovician brachiopods from Kentucky, 16697
- Neumeier, Leander A., tungsten-cobalt system for compositions to 85 atomic percent cobalt, 12816
- Neurochemistry, problems, USSR studies, 4996
- Neurodermatitis patients, treating with electrosleep and hypnosis, USSR excerpt, 17874
- Neurological diseases, see *Nervous system*.
- Neurological Diseases and Blindness, National Institute of, see *National Institute of Neurological Diseases and Blindness*.
- Neurology:
- National Institute of Neurological Diseases and Blindness, information network, 15699
  - neural sciences, translations, 1950-60, bibliography, 17137
- Neuromuscular disorders, progress in research, 18180
- Neurons, see *Nerves*.
- Neuropathology, see *Nervous system*.
- Neurophysiology:
- USSR conference, 15384
  - USSR experiments, 1325
- Neuropsychiatry:
- in World War II, zone of interior, 18311
  - mentally restored, interviewing guides for specific disabilities, 10944
- Neutrality, neutralization in southeast Asia, problems and prospects, 2116
- Neutron activation and analysis, see *Radio-activation analysis*.
- Neutron radiative capture, thermal neutrons, prompt gamma rays, 5776
- Neutron spectrum, see *Spectra*.
- Neutron transmutation, doping, semiconductor devices, fabrication, 12010
- Neutrons:
- americium-beryllium neutron sources, fabrication, apparatus prevents capsule contamination, 14366
  - bombardment, influence on certain properties of tungsten, USSR study, 15389
  - computer program BARI-QUIR 111 provides solution of steady-state, multi-group, 2-dimensional neutron diffusion equations, 17927
  - differential, thermalization, summary report, 13323



Neutrons—Continued

- diffractometer allows both magnetic and crystallographic analyses, 12835
- effective delayed fraction, measurement for NASA Zero Power Reactor 1, 2694
- embrittlement of—
  - higher strength steels, 5356
  - reactor pressure vessel steels, exposure criteria, 5355
- exposure, pressure vessel wall of A 302-B steel, through-thickness notch ductility and tension properties, 17093
- fast-neutron spectrometer, advanced design, 2669
- Halpern-type detector, study, 11592
- intense neutron sources, seminar, proceedings, 13315
- lightweight shield material, provided by aluminum-titanium hydride-boron carbide composite, 16878
- noise, waves, and pulse propagation symposium, proceedings, 12003
- plutonium-beryllium, ages, in tungsten-water media, 1502
- production by fusion in class of anisotropic plasmas, 5347
- real and adjoint flux for NASA zero power reactor (ZPR-1), transport study, 11535
- resonance absorption, calculation in 2-region problems, GAROL code, 15486
- resonance integrals of separated tungsten isotopes, 9914
- sources, practicability of production and application in Yugoslavia, 4980
- thermal, image intensifier tube provides brightly visible radiographic pattern, 17921
- thermal, prompt gamma rays from radiative capture, 5776
- Nevada:
  - area measurement report, 5813
  - census of agriculture, 1964, State and county statistics, 7510
  - census of manufactures, 1963, area statistics, 161
  - census of mineral industries, 1963, area statistics, 4293
  - climatological data, 3096
  - compositionally zoned ash-flow sheet in southern region, 1120
  - county business patterns, 173, 12055
  - early Indian tribes of Lower Plateau, 6437
  - electric rate book, 4776
  - mineral industry, minerals yearbook chapter, 8358
  - precipitation data, hourly, 3401
  - radioactivity, airborne, 1953-56, maps, 1801
  - southern, Upper Triassic and Triassic (?) formations, correlation, 6393
  - water supply—
    - fall summary, 17205
    - outlook and snow surveys, 4048
- Nevinson, John L., origin & early history of the fashion plate, 14531
- Nevis, *see* Leeward Islands.
- New, John C., environment-simulation testing for spacecraft, 11549
- New act of faith, remarks, 7438
- New benchmark production measures, 12533
- New Brunswick Laboratory, research progress report, 13332
- New Caledonia, mineral industry, minerals yearbook chapter, 9759
- New Crops Research Branch, plant material introduced, 8810, 15828
- New directions, pamphlet for prospective retirees from foreign affairs agencies, 8721
- New England:
  - climatological data, 3096
  - commercial fisheries, 15255
  - cost study of general freight transportation, 9604, 11234
  - fisheries, annual summary, 9503

New England—Continued

- labor and economy, 1966, year-end report, 16828
- NE regional reports, 16828
- northern, vacation home study, 18116
- offshore fisheries, brief history, 8021
- precipitation data, hourly, 3401
- regional economic research and planning review, 7871
- southern, aeroradioactivity survey and areal geology, 1778
- southern coast, Sphaeronellopsis monothrix and host Parasterope pollex, new crustaceans, 15605
- New England Regional Commission, Federal cochairman, nomination of John J. Linnehan, hearing, 4657
- New Era (periodical), 3620
- New era for America's waters, 6342
- New Guinea, mineral industry, minerals yearbook chapter, 9759
- New Hampshire:
  - area measurement report, 1831
  - census of agriculture, 1964, State and county statistics, 5903
  - census of manufactures, 1963, area statistics, 162
  - census of mineral industries, 1963, area statistics, 5833
  - county business patterns, 13375
  - electric rate book, 1056
  - minerals industry, minerals yearbook chapter, 2560
  - postal map, 5392
- New Haven, Conn., area wage survey, 11312
- New Hebrides:
  - Geniostoma, description, title page and index, 17048
  - mineral industry, minerals yearbook chapter, 9759
- New Jersey:
  - area measurement report, 4268
  - census of agriculture, 1964, State and county statistics, 7504
  - census of manufactures, 1963, area statistics, 1844
  - census of mineral industries, 1963, area statistics, 5834
  - climate, 9426
  - climatological data, 3096
  - commercial egg-producing farms, costs and returns, 16489
  - congressional districts, 90th Congress, 5900
  - correlation of littoral transport with wave energy along shores, 7925
  - errata, 10954
  - county business patterns, 4313, 13376
  - electric rate book, 2251
  - family and property laws, summary, 10138
  - hydrology and ecology, Pine Barrens (series), 6408
  - landings, fish and shellfish, 3621, 12540
  - mineral industry, minerals yearbook chapter, 1401
  - northern, resources of yttrium and rare earths, reconnaissance, 6674
  - Pine Barrens, distribution of roots and rhizomes in different soil types, 6408
  - precipitation data, hourly, 3401
  - radium cases, epidemiological follow-up, progress report, 10301
  - Upper Silurian and Lower Devonian stratigraphy, 11167
  - yellow-poplar, treatments needed to regenerate, 17804
- New life for the blind, 17184
- New Mexico:
  - census of agriculture, 1964, State and county statistics, 10397
  - census of mineral industries, 1963, area statistics, 5835
  - climatological data, 3096
  - county business patterns, 12056
  - electric rate book, 9458
  - fluorspar deposits, 2540

- New Mexico—Continued  
 forest resource, 2335  
 ground water resources of southern part of Jicarilla Apache Indian Reservation and adjacent areas, 17829  
 highway safety study, Operation 66, joint engineering-enforcement project report, 1594  
 mineral industry, minerals yearbook chapter, 6661  
 postal map, 5393  
 precipitation data, hourly, 3401  
 radionactivity, airborne, 1953-56, maps, 1801  
 statue of Denna Chavez, acceptance, proceedings, 4570  
 war on poverty, examination, hearings, 12420  
 water supply outlook and snow surveys, 4045
- New Orleans, La., area wage survey, 11322  
 New shapes for Ivory towers, 7904
- New York City:  
 area wage survey, 16817  
 City University of New York, Queens College commencement (address), 11197  
 Cotton Exchange, futures trading and open contracts in cotton, wool and wool tops, 3366  
 economic problems, some aspects, statistics, 15455  
 fresh fruit and vegetable prices, 10203  
 High Rock Nature Conservation Center, 13959  
 Mercantile Exchange, futures trading and open contracts in potatoes and butter, 3367  
 port, facilities maps, 9421  
 port, general data, 4736  
 Produce Exchange, futures trading and open contracts in cottonseed oil and soybeans, 3366  
 women, counseling and vocational guidance services, 5599
- New York State:  
 area measurement reports, 10337  
 census of agriculture, 1964, State and county statistics, 7503  
 census of manufactures, 1963, area statistics, 1845  
 census of mineral industries, 1963, area statistics, 5336  
 climatological data, 3096  
 correlation of littoral transport with wave energy along shores, 7925, 10954  
 county business patterns, 4314, 12057, 14821  
 electric rate book, 12511  
 family and property law, summary, 10139  
 landings, fish and shellfish, 3628, 14054  
 mineral industry, minerals yearbook chapter, 5118  
 precipitation data, hourly, 3401  
 prekindergarten program, 13962  
 southeastern, aeroradioactivity survey and areal geology, 1775  
 southeastermost, Upper Silurian and Lower Devonian stratigraphy, 11167  
 women workers, 1670
- New York Stock Exchange, 175th anniversary observance symposium (remarks), 11058
- New Zealand:  
 amateur alien radio operators, authorization to operate, agreement, 17232  
 artifacts, from U.S. transit of Venus expedition, 6972  
 background notes, 14606  
 capsule facts for Armed Forces, 17369  
 health information for travel, 13073  
 lights and fog signals, list, change, 1537, 7004, 11642, 18099  
 livestock and meat industry, 11097  
 loan of vessel, extension, agreement, 15771  
 mineral industry, minerals yearbook chapter, 8359
- New Zealand—Continued  
 sailing directions, change, 18098  
 Newark, N.J., area wage survey, 11326  
 Newcomb method, see Mathematics.  
 Newcome, Roy, Jr.:  
 development of ground-water supplies at Mississippi Test Facility, Hancock County, Miss., 8183  
 ground-water resources of Pascagoula River basin, Miss. and Ala., 11190
- Newell, Homer E.:  
 astronomy in space, 8434  
 NASA's space science and applications program, 12877  
 paper, Feb. 25, 1967, 6913  
 recommended national program in weather modification, 9450
- Newhall, Alfredo Reboreda, see Reboreda-Newhall, Alfredo.
- Newman, Allen L., soil survey of Kinney County, Tex., 11806
- Newman, Jerry O., economical and efficient heating system for homes, 15874
- Newport, Ohio, Mitchell and Berea sands, Lower Newport field, secondary recovery of oil by waterflooding, 14361
- Newport News, Va., area wage survey, 16816
- News digest:  
 Federal Power Commission, 3629  
 Securities and Exchange Commission, 3630  
 News for farmer cooperatives, 3631
- News letters:  
 consumer relations, 3146  
 Equal Employment Opportunity Commission, 3633  
 Federal Library Committee, 3337  
 Head Start Project, 3392  
 Job Corps staff, 3454  
 medical, Medicine and Surgery Bureau, 3547  
 Navy Supply Corps, 3616  
 NBS publications, 3617  
 Paris Air Show, 8226  
 President's Council on Physical Fitness, 3634  
 rural areas development, 3841  
 State Department, 3199  
 State Technical Services Office, 3896  
 United States National Commission for UNESCO, 3986  
 USDA employee, 4012
- News releases, see names of departments, etc., issuing releases.
- News summary, Federal Trade Commission, 3329
- Newsletters, see News letters.
- Newsman's privilege, 2129
- Newspapers, microfilm, list, 8329  
 see also Press.
- Newtonian fluid, see Fluids.
- Nez Perce National Historical Park, general information, 1535
- Nguyen Tran Van, see Tran Van Nguyen.
- Niagara County, N.Y., population, special census, 16019
- Nicaragua:  
 amateur alien radio operators, authorization to operate, agreement, 7159  
 mineral industry, minerals yearbook chapter, 14331  
 records of Dept. of State, microcopy pamphlet to accompany, internal affairs, 18062
- Nichols, Harry R., effect of charge diameter on explosive performance, 2570
- Nichols, George C., basic research, applied research and development in industry, 2761
- Nichols, Paul R.:  
 striped bass, 1076  
 tagging summary of American shad, Alosa sapidissima (Wilson and striped bass, Roccus saxatilis (Walbaum), 8037
- Nichols, Vernon M., relief, 773
- Nichols, William O., T.I.D.E. (Testing, Information, Discussing, and Evaluating), promising demonstration project, 7923

Nicholson, David E., vibratory compaction of mine hydraulic backfill, 9774

Nickel:

- alloys, corrosion resistance in nuclear reactor superheaters, 9797
- alloys for use at cryogenic temperatures, excellent spring properties developed, 17930
- base sandwich construction, edgewise compressive properties at elevated temperatures, 8102
- disposal from national stockpile—
- hearings, 722, 7738, 10808
- law, 453
- reports, 687, 936, 9117
- duties, continue suspension—
- law, 12182
- reports, 9099, 13797
- electroless plating on stainless steels and aluminum, 5202
- Hastelloy-X, weld procedure produces quality welds for thick sections, 14364
- identification marking, nickel and alloys, Federal standard, 16603
- mineral industry survey, monthly, 3635
- minerals, magnetic susceptibility, 17911
- packing defects in nickel powders, USSR study, 12712
- Raney, technology, 14418
- Nickel-cadmium cells, see Storage batteries.
- Nickel oxide, powder, photodesorption of oxygen from, 16995
- Nicks, Oran W., review of Mariner IV results, 14402
- Nicol, Elizabeth H., confidence in recall in paired-associate learning experiments, 13262
- Nicolls, John S.:
  - deep and/or rapid fading phenomena in strictly line-of-sight UHF/SHF propagation, 6225
  - fading statistics on 212-km line-of-sight overwater radio path at 1760 MHz, 6224
- Niederhorn, Donald N., college course, basic statistics, study guide, 9362
- Nelson, Lyman J., inventory of research in water pollution and related fields, Columbia Basin and Pacific Coast States, 15254
- Nelson, M. W., procedures for screening and testing alfalfa for resistance to alfalfa seed chalcid, 14733
- Nelson, Thomas H., nomination, hearings, 17639

Niger:

  - background notes, 18224
  - Chad boundary, study, 1633
  - labor conditions, 1385

Nigeria:

  - labor conditions, 1386
  - mineral industry, minerals yearbook chapter, 8662
  - nutrition survey, 7088

Nigh, June, activities of Foreign Affairs Committee, 89th Congress, 4536

Night vision, see Sight.

Nightwear, knit, current industrial reports, 3170

NIH, see National Institute of Health.

Nike system, see Missiles.

Nikolayevsk, Russian SFSR, shipbuilding plant reviews its progress, 15368

NIMH, see National Institute of Mental Health.

NINDB, see National Institute of Neurological Diseases and Blindness.

Niobium:

  - columbium and tantalum alloy development, 11389
  - columbium-base alloys, study, 14344
  - mass transfer in stainless steel-Cb-1Zr-potassium system, and effect of stabilization of carbon and nitrogen in stainless steel, 12864
  - superconducting, ultrasonic attenuation, 5273

Niobium—Continued

- tensile and creep-rupture properties, nitrogen effect, 10000

Nishabotna River:

- Extra, Iowa, vicinity, engineer report—
- departmental edition, 13980
- document edition, 13556

Nitrates, of nitrogen-containing bases, USSR study, 2458

Nitric acid, manufacturing processes, atmospheric emissions, 5428

Nitrogen:

- alkali-metal vapor mixture, equilibrium thermodynamic properties, at high temperature, 16974
- bases containing, nitrates and perchlorates, USSR study, 2458
- combustibility of materials in oxygen-hellum and oxygen-nitrogen atmospheres, 5706
- dilute, viscosity and thermal conductivity coefficients, 5293
- effects as pressurants in nitrogen tetroxide transfer, 9847
- effects of injection into boundary layer on graphite surface in high-temperature dissociated airflow, 12964
- effects on—
- flammability of materials in hyperbaric atmospheres, 11675
- tensile and creep-rupture properties of niobium, 10000
- transit temperature and market quality of western lettuce shipped in piggy-back trailers, 5644
- equation of state for helium-nitrogen mixtures, 8374
- fertilization, 5 years in sweetgum-oak stand, 2321
- fertilizer supply, 8819
- foliar nitrogen in fertilized loblolly pines, 8094
- gas, zero pressure thermodynamic properties, 6636
- liquid—
- performance of hubless pump inducer, 6860
- pure, vapor pressure, 6639
- reclamation system, 18007
- use in determining wear and friction of polymer laminates, 2693
- megawatt dc arc heating, experimental investigation, 5205
- metabolism in brain of rats under impulse accelerations, USSR study, 1167
- mobilization resulting from conditions of inactivity in Macaca irus monkeys, study, 5707
- nitrogen-oxygen mixture, vibrationally relaxing, centered one-dimensional unsteady expansion, 6858
- requirements of normal adults residing at 4300 meters for 28 days, 14806
- retention and growth of cattle, effects of protein and energy intake, 1723
- stabilization in stainless steel and its effect on mass transfer in stainless steel-Cb-1Zr-potassium system, 12864
- titanium alloys, electrorefining, 2582
- washout curves, computer solution, evaluation, 15894

Nitrogen dioxide:

- fumes from explosives, rapid colorimetric method for field determination, 14338
- nitrogen dioxide-nitrogen tetroxide, effect on oxyhemoglobin dissociation, 13270

Nitrogen fluorides, unknown NF molecule, ground, ionized and excited states, 5181

Nitrogen isotopes:

- abundance in natural gases, rel to helium genesis, 9785
- (d,  $\alpha$ ) reactions on nitrogen 15, interpretation, 9873

Nitrogen oxides, production, flame characteristics causing air pollution, 8378

Nitrogen tetroxide:  
 disposal unit, combustion production emitted, 1515  
 nitrogen dioxide-nitrogen tetroxide, effect in oxyhemoglobin dissociation, 13270  
 transfer from one vessel to another at higher elevation, effects of helium and nitrogen as pressurants, 9847  
 Nitze, Paul H., nomination, hearing, 15148  
 Nixie tube display unit employs time-shared logic, 5149  
 Nixon, Roy W., growing dates in United States, 29  
 NLRB, see National Labor Relations Board.  
 NMR (nuclear magnetic resonance), see Nuclear magnetic resonance.  
 No laughlog matter, cartoonist focuses on air pollution, 6450  
 No picnic, 11746  
 Noble gases:  
     chemically inert gases, effect on oxygen consumption in living tissues, 5708  
     chemistry, 17408  
     inert, effect on oxygen uptake in mice, 76  
     space-cabin atmospheres, physiological factors of inert gases, 9823  
 Nobles, R. W.:  
     height growth of mahogany seedlings, St. Croix, V.I., 12575  
     killing unwanted West Indies mahogany trees by peeling and frilling, 12573  
     mowing understory vegetation in young teak plantation, 12574  
     root pruning of mahogany nursery stock, 12572  
 Nobles of Mystic Shrine, see Ancient Arabic Order of Nobles of Mystic Shrine.  
 Nobi y Pividal, Rafael J., relief, 9215, 10530  
 Nobody wanted school desegregation, 15213  
 Noctilucent clouds, see Clouds.  
 Noctuidae, see Euseptis Hübner.  
 Noda, Esteban Fernández, see Fernández Noda, Esteban.  
 NODC, see National Oceanographic Data Center.  
 Noe, Frank E.:  
     mineral industry of Colombia, 11360  
     regional mineral industry review of Latin America, 12813  
 Noffsinger, T. L., agrometeorological progress in United States, 11900  
 Noise:  
     aircraft—  
         insulating houses, study, 14188  
         interaction of single-stage axial-flow compressor, contribution of downstream stator, 9882  
         multiengine jet transport, noise-abatement approach profiles, NASA research, 12956  
         references, 4753  
         supersonic jets, prediction of near field noise, 14400  
         take-off-climbout profiles of 4-engine turbojet transport airplane, 2699  
         turbojet engine having choked inlet flow, measurement, 11499  
         upstream flow discontinuities influence on acoustic power radiated by model air jet, 6714  
     edge-type connectors evaluated by electrical noise measurement, 11462  
     finite amplitude acoustic pressure wave, define propagation characteristics, S421  
     FM modulation of CW laser beam, 6710  
     heart rate response to, of anesthetized and unanesthetized dogs, 4180  
     helicopter rotor noise reduction, tip vortex core thickening, application, 4220  
     industrial, guide to its evaluation and control, 17152  
     neutron noise, symposium, proceedings, 12003  
     probability distribution, 1st and 2d order, measuring system devised, 17085

Noise—Continued  
     random excitation, rectangular plates, maximum response, 16892  
     rocket engines, acoustic prediction methods, 1422  
     shipboard, reduction and control, USSR studies, 6498  
     space vehicles, random noise and vibration, 17705  
     see also Sonic boom.  
     Noise-rejection coding of digital teletype communications in complex automatic hydrometeorological telemetering systems, USSR, 8275  
     Noise suppressors, acoustic liners to suppress screech in rockets, 6870  
     Noland, Michael C., high-velocity metalworking, survey, 11428  
     Noll, Richard B., theoretical dynamic analysis of landing loads on vehicle with tricycle landing gear, 14472  
     Nolo contendere and private antitrust enforcement, hearings, 13875  
     Nomenclature, automatic electronic test and checkout, definition of terms, military standard, 7861  
     Nominations, Academy of Medical Sciences, USSR, 5022  
     see also names of persons.  
     Nomography (mathematics):  
         Army manpower policy evaluation, 4227  
     Nonappropriated funds, instrumentalities act, regulations for compensation, 1018  
     Noncaloric sweeteners, their position in sweetener industry, 10916  
     Noncash items, collection, regulation, revocation, 14043  
     Nondestructive test method accurately sorts mixed bolts, 2679  
     Nondestructive testing, trends and techniques, 11430  
     Nonfat dry milk, see Milk.  
     Nonferrous castings, see Castings.  
     Nonferrous metals, see Metals.  
     Nonlinear equations, see Equations.  
     Nonlinear flexural vibrations of thin-walled circular cylinders, 14482  
     Nonlinear theories, space flight control systems, nonlinear, 15498  
     Nonmagnetic, explosive actuated indexing device, 11496  
     Nonmetals:  
         industries—  
             employment and injuries, S338  
             Federal metal and nonmetallic mine safety act, report, 647  
             injury experience, 9756  
             review, minerals yearbook chapter, 6689  
             technologic trends, minerals yearbook chapter, 5136  
         materials, Federal Item Identification guides for supply cataloging, supplements, 3291  
         minor, minerals yearbook chapter, 8371  
     Nonmetropolitan delinquency, action program, 11906  
     Nonprofit organizations:  
         and their employees, social security, how it works, 5505  
         employees disseminating information that promotes U.S. interest, permit naturalization, 17606  
         food donation programs, audit extent, GAO report, S149  
         loans for senior citizens housing, 2383  
         pension plans, tax treatment, report, 15093  
     Nonprofit-sponsored housing for open occupancy, S202  
     Non-proliferation treaty, why?, 15926  
     Nonwhite population:  
         educational attainment of women, fact sheet, 13185  
         women workers, fact sheet, 5601  
     Nooksack Indians, judgment funds, disposition, law, 379

- Nordtvedt, Kenneth, jr., manual space navigation, theory, 14390
- Norepinephrine, decaborane-mediated norepinephrine depletion, reversal by methylene blue, 1730
- Norfolk, Va., area wage survey, 16816
- Norfolk County, Mass., Norwood quadrangle geology, 6389
- Norfolk-Island-pine, see Pine.
- Norfolk Naval Shipyard, employees, relief, report, 4587
- Norioff, Paul A., establishing business in United Kingdom, 17476
- Norman, Edgar C., summaries of fast reactor fuels and materials development programs, 4238
- Norman, Leland C., Gemini land landing system development program, 6901-2
- Norris, John D., conical pressure probe performance, 5230
- Norris, L. Fredrick, submicron powder blending methods for dispersion alloys, 6880
- North America :  
chalcid flies, revision of genus, 8536  
civil divisions, geographic report, 17223  
east coast—  
lights and fog signals, list, changes, 5331, 9972, 14578  
1968 tide tables, 12119  
geology, abstracts, 2980  
Hymenoptera of America north of Mexico, synoptic catalog, 7267  
livestock, foot-and-mouth disease menace, control and eradication program, 7252  
mineral industry, regional review, minerals yearbook chapter, 11368  
northeastern, Hemicytheridae and Trachyleberididae (Ostracoda), classification and distribution, 8174  
Pacific Coast—  
surface water temperature and density, 17466  
tidal current tables, 16087  
soldier fly larvae in America north of Mexico, 6957  
west coast—  
lights and fog signals, list, changes, 1537, 7004, 11642, 18099  
tide tables, high and low water predictions, 7555
- North Atlantic slope basins, see Atlantic States.
- North Atlantic Treaty Organization :  
Atlantic alliance—  
current views, 10838  
unfinished business, 6108  
common infrastructure program, U.S. participation, investigation, report, 2034  
economic side (remarks), 10124  
emergency war surgery handbook, Spanish edition, 9366  
headquarters of Deputy Commander, Allied Forces in Europe, agreement with France, 7170  
parliamentarians' conference, 1966, report of U.S. delegation, 9311  
Soviet view (speech), 9317  
status of forces treaties, international law studies, 11683
- North Carolina :  
area measurement reports, 17422  
Beaufort Inlet to Bogue Inlet, hurricane survey, engineer report—  
departmental edition, 2203  
document edition, 1996  
Bogue Inlet to Moore Inlet hurricane survey, engineer report—  
departmental edition, 2204  
document edition, 1997  
census of agriculture, 1964, State and county statistics, 16037  
census of manufactures, 1963, area statistics, 1846  
census of mineral industries, 1963, area statistics, 5837
- North Carolina—Continued  
climatological data, 3096  
coastal plain, tobacco farms, commercial costs and returns, 13943  
county business patterns, 4315, 13377  
landings, fish and shellfish, 3638, 17771  
mineral industry, minerals yearbook chapter, 5119  
minor elements in alluvial magnetite from Inner Piedmont belt, 8172  
Ore Knob copper deposit, 15310  
Outer Banks, dune stabilization with vegetation, 16523  
precipitation data, hourly, 3401  
soil survey laboratory data and descriptions, 18216  
textile jobs for non-whites, etc., opportunities, 13994  
timber resource survey, 2338
- North Cascades National Park :  
establish—  
hearings, 15163  
report, 17631
- North Central Forest Experiment Station, publications, 1966, list, 14086
- North central region, see Central States.
- North Dakota :  
area measurement report, 8928  
census of agriculture, 1964, State and county statistics, 10393  
census of mineral industries, 1963, area statistics, 4294  
climatological data, 3096  
county business patterns, 1868, 12058  
District Court, Williston, additional place, report, 12395  
electric rate book, 4777  
mineral industry, minerals yearbook chapter, 8360  
postal map, 5394  
precipitation data, hourly, 3401  
public lands, use of income for schools, etc—  
law, 12177  
reports, 10733, 12262  
sedimentary rocks, chemical composition, 14172  
women, new horizons, conference report, 5606
- North Korea, see Korea.
- North Little Rock, Ark. :  
area wage survey, 1361, 17896  
population, special census, 10366
- North Nashua River :  
and tributaries, engineer report—  
departmental edition, 4734  
document edition, 4569
- North Pacific Ocean, see Pacific Islands.
- North Sea :  
eastern shores, sailing directories, change, 6999  
lights and fog signals, list, changes, 5334, 11644
- North Vietnam, see Vietnam.
- Northeast (U.S.) :  
dairy farms, commercial, costs and returns, 16488  
increasing water yield by management of forested watersheds, 14136  
Northeast Corridor transportation project, design for impact studies, 1938  
power failure of Nov. 9 and 10, 1965—  
analysis and recommendations, 14030  
final report to the President, 14030  
hearings, addendum, 2053  
studies of task groups on power interruption, 14030  
pulpwood production, 4857, 8122, 14146, 17807  
soil and water conservation research, 38  
wildlife refuges, 1078
- Northeastern Forest Experiment Station :  
annual report, 17800  
forest-inventory data-processing system, 11134

# INDEX 1967

- Northeastern Forest Experiment Station—  
Continued  
Forestry Science Laboratory, Morgantown,  
W. Va., purpose, work, etc., 14084  
publications, list, 11135  
Northern Forest Fire Laboratory, forest fire  
research since 1960, publications, 8058  
Northern Hemisphere, *see* Hemisphere,  
Northern  
Northern Utilization Research and Develop-  
ment Division:  
publications and patents, list, 7253  
publications list, new crops, 13199  
Northfield School, East Northfield, Mass.,  
carillon, duty-free entry, 7650, 14884,  
16353  
Northwall, Carolyn L., personnel management  
and training, supplement 1, 10230  
Northwest (U.S.):  
balsam wooly aphid, infestation character-  
istics, 4852  
current discharge at selected stations,  
3907  
forest industries, production, prices, em-  
ployment, and trade, 3774  
forest insect conditions, 8053  
forested lands, development (remarks),  
8210  
how to see, 1658  
lead-zinc industry, analysis, 11352  
month-end storage in major reservoirs,  
3907  
national forests, 15279  
nuclear power and Northwest (remarks),  
1817  
Pederson process adaptation to ferruginous  
bauxites, 9788  
precipitation and temperature, monthly,  
3669  
precipitation, probable maximum, 5594  
range-plant symbols, list, 14141  
river temperatures, 3839-40  
search for better kinds of trees, Wind  
River Arboretum, 14147  
small business regional export industries  
and institutions over next decade, po-  
tentials and problems of developing,  
hearings, 17678  
training centers and programs, provide  
central location, hearings, 15156  
water, new reports by Geological Survey,  
11170  
water resources—  
annual peak discharge at selected gaging  
stations, 16680  
summary, 2362, 3670, 17822  
weekly runoff report, 3671  
Northwest Atlantic Fisheries Convention,  
multilateral understanding, protocol, 2896  
Northwest Regional Services Corporation,  
create, hearings, 15156  
Northwest Shellfish Sanitation Research  
Planning Conference, proceedings, 15683  
Norway:  
amateur alien radio operators, authoriza-  
tion to operate, agreement, 15784  
background notes, 11818  
capsule facts for Armed Forces, 15914  
infant mortality problems, 17167  
lights and fog signals, list, changes, 5335,  
8572  
mineral industry, minerals yearbook chap-  
ter, 11363  
mutual defense assistance, agreement, 2927  
northwest and north coasts, sailing direc-  
tions, change, 14573  
southwest coast, sailing directions, change,  
7000  
Northwestern University, triaxial apparatus  
and rheognometer, duty-free entry, 617,  
7653, 14889, 16357  
Northwind (vessel):  
documentation with coastwise privileges,  
14892, 15065  
Norton, Elinor F., chemical yield, determina-  
tions in radiochemistry, 13331  
Norton, James J., ternary diagrams of  
quartz-feldspar content of pegmatites in  
Colorado, 1111  
Norwalk River and Valley:  
basin, Conn. and N.Y., engineers report—  
departmental edition, 17733  
document edition, 17616  
Norwood, Janet L., wages in Japan and  
United States, 16827  
Norwood, Joseph, Jr., viscous drag effect on  
performance of coaxial plasma gun, 5267  
Norwood, Mass., geology of quadrangle, 6389  
Nose, incidence of diseases in 400 space and  
test pilot candidates, 14781  
Nosology, training unit for nosologists, de-  
scription of diseases frequently reported on  
death certificates, 7095, 8656  
Notes, *see* Treasury notes.  
Notice to aviators:  
United States Navy, 3640  
index, 9967  
Notice to mariners, 3641, 7007  
chart correction list, 5337, 14582  
Great Lakes and tributary waters, 3642,  
9006  
Notice to trade, aluminum forgings, 10332  
Notices of judgment, food, drug, and cos-  
metic act, 3643-44  
Notices to airmen, 3022, 10978  
international notams, 3437, 9445  
Notifiable diseases, *see* Contagion and con-  
tagious diseases.  
Novak, Arthur F., radiation pasteurization  
of Gulf shellfish, 13341  
Noxious and Obscene Matters and Materials  
Commission, create, reports, 2059, 10755  
Noxious plants, *see* Weeds.  
Noxubee National Wildlife Refuge, general  
information, 2278  
Nozzles:  
convergence, with uncooled pipe inlets,  
heat transfer investigation, 17005  
exhaust, effects of chemical kinetics on  
performance, computer program for de-  
termining, 15575  
fabricated from mild tool steel, use for  
grit blasting, 6762  
isentropic plug, off-design performance,  
6892  
multilayer refractory, produced by plasma-  
spray process, 6774  
nuclear rocket type, convectively cooled,  
design and evaluation, application of  
digital codes, 5269  
regenerative, used in cold-flow nuclear  
rocket test facility, cooldown charac-  
teristics, 11500  
regeneratively cooled, for tungsten water-  
moderated nuclear rocket system, 2729  
two-dimensional, investigation of second-  
ary jets for hypersonic control applica-  
tion, 5266  
NP1P, *see* Poultry.  
NPS, *see* National Park Service.  
NPS national prisoner statistics series, 5409,  
17128-129  
NRAB, *see* National Railroad Adjustment  
Board.  
NRL, *see* Naval Research Laboratory.  
NSLI, *see* Life Insurance.  
NSRDS, *see* National Standard Reference  
Data System.  
NSSL, *see* National Severe Storms Labora-  
tory.  
NTC, *see* National Teacher Corps.  
NTDS, *see* Naval Tactical Data System.  
Nuclear clocks, *see* Atomic clocks.  
Nuclear Data, Information Center on, *see*  
Information Center on Nuclear Data.  
Nuclear defense design for architects and  
engineers, 16053  
Nuclear energy, *see* Atomic energy.  
Nuclear engineering:  
coolants for nuclear power engineering in-  
stallation, USSR study, 1260  
education activities, guide, 5796



**Nuclear explosions:**

Plowshare program—  
 apparent-crater studies, final report, 13342  
 civil, industrial, and scientific uses, bibliography, 5787  
 clouds, lidar observations, final report, 17397  
 concrete stem for access hole, design, etc., 17395  
 engineering properties of nuclear craters, 17398  
 geologic and engineering properties investigations, final report, 17394  
 multiple row charge blast-wave observations at long range, 1798  
 preshot geophysical measurements, 15962  
 Project Handcar, and surface accelerations, 5782  
 structures instrumentation, 17396  
 underground detonations, fallout characteristics, 7426  
 Project Dribble, Salmon event, earth vibrations from nuclear explosion in salt dome, 8911  
 Project Pre-Schooner II, technical director's summary report, 5781  
 threshold distances for retinal burns from low-yield detonations, 69  
 underground—  
 industrial, problems, 5757  
 radioactive fallout and fractioning of isotopes, conditions of formation, 1268  
 seismic velocity determination and distance measurements in salt dome, 1808  
 timing and firing, 1810  
 vent-gas treatment plant, 1809  
 Nuclear explosives, *see* Atomic blasting.  
 Nuclear fission, nuclear safety, critical parameters of fissionable materials systems, USSR book excerpts, 15408  
 Nuclear fission waste, *see* Radioactivity.  
 Nuclear fuel, *see* Reactor fuels.  
 Nuclear fusion:  
 Journal of plasma physics and thermonuclear fusion, translations, 1774-75, 7417  
 neutron production by fusion in class of anisotropic plasmas, 5347  
 plasma physics and controlled nuclear fusion research, translated Russian papers, 5756  
 selected articles, translations, 5755  
 Nuclear geophysics, instruments, production, USSR study, 8265  
 Nuclear magnetic resonance:  
 organic loading of charcoal, method for determining, 14597  
 sensitive recording NMR ultrasonic spectrometer, 2744  
 spectrometer, improved, 14433  
 Nuclear ordnance, *see* Atomic ordnance—  
 Fire control (gunnery).  
 Nuclear physics:  
 reactor shielding physics, problems, 12972  
 recent research activities, Universities of Basel and Fribourg, Switzerland, 5011  
 Nuclear power, *see* Atomic energy.  
 Nuclear power plants, *see* Nuclear reactor power plants.  
 Nuclear powered ships:  
 commissioning of nuclear submarine Sturgeon (remarks), 7439  
 N.S. Savannah—  
 layup, hearings, 12307  
 liability during private operation, agreement with Republic of China, 15799  
 operation, continue, hearing, 13853  
 visit to Hong Kong, agreement with Great Britain, 15795  
 submarines—  
 atmosphere, purification and control, chemical research status, annual progress report, 17084

**Nuclear powered ships—Continued**  
 submarines—continued

propulsion equipment, procurement under Public law 87-653, by Navy Dept., GAO report, 16674  
 Nuclear radiation, *see* Radiation.  
 Nuclear reactions, controlled thermonuclear research, AEC policy and action paper, 1806  
 Nuclear reactor power plants:  
 Beloyarskaya atomic electric power station imeni I. V. Kurchatov, radiation situation in area, USSR study, 15406  
 boiling water reactor nuclear steam supply systems with capacities to 10,000 Mwt, feasibility study, 17391  
 BONUS boiling nuclear superheater power station, final hazards summary report, 5784  
 BONUS core development program, final report, 8901  
 combination nuclear power desalting project—  
 hearings, 7749, 7813  
 laws, 375 10487  
 reports, 675, 6078, 7731, 9125  
 coolants for nuclear power engineering installations, USSR study, 1260  
 desalting and energy development and utilization, policy considerations, 15969  
 industry and government, complementary roles (remarks), 131  
 Northwest and nuclear power (remarks), 1817  
 nuclear power plants, descriptions, locations, etc., 7443  
 nuclear power 2 years after Geneva (lecture), 133  
 operating and safety experience analysis, 12007, 13327  
 small plants—  
 design, construction, and operating experience, 5769  
 general economic assessment, 12006  
 industrial expression of supply and demand considerations, 12005  
 superheat project, final report, 5773  
 Nuclear reactors, *see* Reactors (atomic).  
 Nuclear rockets, *see* Rockets.  
 Nuclear safety, quarterly technical progress review, 3645  
 Nuclear science:  
 abstracts, 3646  
 Government-wide index, 3381  
 index, 3647  
 cumulative, corporate authors, 12024  
 cumulative report number, with public availability citations, 7440  
 cumulative, subjects, 15971  
 subject headings used, 128  
 subject scope, 7427  
 Atoms in Action Nuclear Science Demonstration Center, operations (remarks), 8917  
 conferences, index, 127  
 education activities, guide, 5796  
 future outlook for applications (remarks), 17404  
 nuclear science and technology for ceramists, proceedings of symposium, 12982  
 progress and application to basic world-wide problems (remarks), 15974  
 series, 1793, 13331  
 year of progress (remarks), 132  
 Nuclear warfare, *see* Atomic warfare.  
 Nuclear weapons, *see* Weapons.  
 Nucleate boiling:  
 convection, conduction, and evaporation, assessment, 9907  
 heat transfer with electrical field, 13334  
 Nucleation, *see* Phase studies.  
 Nuclei:  
 inelastic electron scattering, calculation, 12019  
 morphology of interphase nucleus, USSR study, 12747



- Nucleic acids :  
 bibliography, 8534  
 metabolism of liver in experimental atherosclerosis, USSR study, 1275  
 methods of determination, isolation and fractionation, Bloc countries hold symposium, 6487
- Nucleoli, *see* Cells.
- Nuclides, *see* Radionuclides.
- Nueces County, Tex., civil rights status of Spanish-speaking Americans, 14848
- Numbering systems :  
 part and drawing, use by manufacturers, 7847, 10886  
 run, for use with data recorders, 12918
- Numerical calculations :  
 calculate components of earth's magnetic field, NELIAC-N computer program, 17083  
 characteristics method application to unidimensional problems in gas dynamics, 14500  
 characteristics of gas flowing axially through constricted arc, 12955  
 computer program calculates monotonic maximum likelihood estimates using method of reversals, 11465  
 data frame readout system used in testing telemetry systems, 12901  
 determination of electron temperature from X-ray continuum radiation emitted from high temperature plasmas, 11681  
 diffraction of normal shock wave by sphere and for transient flow, 17015  
 economic, for solving problems, Rumanian studies, 1309  
 experiments in plasma physics, 1791  
 how to compute injury rates, 9701  
 inelastic electron scattering by nuclei, 12019  
 method for determining heating rates from thick-calorimeter data, 8486  
 methods for estimating geochemical abundance, 9573  
 Monte Carlo program for Doppler coefficients, 18030  
 naval weather service computer products manual, 15618  
 satellites, theory, in Brendel's coordinates, 11545  
 Schrödinger equation, numerical solutions, accurate and stable, 17090  
 study compares methods for numerical solution of ordinary differential equations, 1463  
 three-dimensional calculation of fuel burn-up in water cooled, water-moderated power reactors, 16740  
 viscous drag effect on performance of coaxial plasma gun, 5267
- Numerical integration, *see* Integration (mathematics).
- Numerical lists and schedule of volumes of reports and documents, 89th Congress, 2d session, 10036
- Numerical weather forecasting methods used in USSR hydrometeorological service, 1184
- Nurse Corps, Navy :  
 candidate program, 17080  
 you, your country, and Navy Nurse Corps, 5342
- Nurseries, *see* Day care of children.
- Nurseries (horticulture) :  
 nursery products, bibliography on marketing, 1708  
 seedbed density affects size of 3-0 green ash stock, 14095
- Nursery schools, *see* Day care of children.
- Nurses and nursing :  
 aged, nursing care, annotated bibliography, 10056  
 community planning in D.C. metropolitan area, source book, 18158  
 coronary care units, publications, films, and other teaching aids, 5452
- Nurses and nursing—Continued  
 elementary rehabilitation nursing care, 1571  
 employees in nursing and personal care homes, number etc., statistics, 7098  
 examination announcement, amdts., 5927, 8989  
 expenditures in small health agencies, costing procedures, 5437  
 Hurricane Betsy, nurses serve, 18168  
 Indian and Alaska native health program, nurses, examination announcement, 10436  
 Indian health program, examination announcement, discontinuance notice, 10423  
 Indians, nursing careers among, 18184  
 national disaster, role of licensed practical nurse, 11733  
 practical nursing in VA, forward step in career, 10127  
 professional nurses—  
 examination announcements, 1917, 10416, 17456  
 discontinuance notice, 1920  
 inactive, refresher programs, guide for courses of study, 10060  
 traineeship program, 2834  
 PHS short-term training courses, 8653, 17162  
 schools offering traineeships for full-time academic study, 5464, 15710  
 psychiatric-mental health trainee stipends—  
 availability, etc., 10058  
 institutions offering for graduate and undergraduate education, 11760  
 public health nurses number, educational preparation, etc., United States, Puerto Rico, Virgin Islands and Guam, 17155  
 Public Health Service, careers in nursing, 10042  
 so you want to be a licensed practical nurse, 15206  
 special research fellowships, predoctoral and postdoctoral, general information, 15711  
 supply and need, statistics in brief, 5451, 15701  
 training act of 1964, student loan program, information, 11747  
 training improvement, project grants, guidelines, 18164  
*see also* Nurse Corps, Navy.
- Nursing assistants, *see* Hospital attendants.
- Nursing homes :  
 and related facilities, extended care facility under medicare, what it means to you, 7125  
 and title 6 of civil rights act of 1964, 1584  
 care of veterans in Alaska and Hawaii, eliminate certain requirements, report, 6007  
 care provided to welfare recipients, guidance to States in establishing rates, GAO report, 17811  
 chronic illness among residents of nursing and personal care homes, May-June 1964, U.S. statistics, 11764  
 employees in nursing and personal care homes, number etc., statistics, 7098  
 extended care benefits after hospitalization under medicare program, 2865, 11796  
 extended care facilities, providers of services under health insurance for the aged, directory, 15738  
 extended care facility manual, medicare program, 5504, 7120  
 FHA-assisted program, 1965 survey, 6435  
 health record system, organizational guide, 7072  
 hospital and medical facilities, Hill-Burton program, equipment planning guide, 15691

## Nursing homes—Continued

inquiry into practices in providing care to old-age assistance recipients in Cleveland, Ohio, area, GAO report, 8150  
 minimum property standards, 8203  
 open every door, Nation's goal for compliance with title 6 of 1964 civil rights act, 13183  
 practices in providing care for welfare recipients in California, GAO report, 2354  
 prevalence of chronic conditions and impairments among residents of nursing and personal care homes, 14639  
 under Fair labor standards act, as amended, 1663  
 VA nursing home care programs, operation, hearings, 15050  
 Nursing School, Freedmen's Hospital, *see* Freedmen's Hospital School of Nursing.  
 Nussbaum, William J., evaluation of radial-inflow turbine over range of Reynolds number, 6881  
 Nussbaum, William, and wife, relief, 314, 817  
 Nutrition:  
   biochemistry of protein nutrition, USSR book review, 15405  
   bite-size food fed to man in oxygen-helium atmosphere, evaluation, 83  
   child nutrition act of 1966—  
     amend, hearings, 9139  
     closing nutrition gap, 15871  
     law, 373  
     report, 663  
   facts, 18162  
   good breakfast starts a good day, 14745  
   mineral nutrient requirements of *Chlorella sorokiniana* in continuous pure culture, 14779  
   nutrition program news (periodical), 3648  
   nutritional status of preschool children, suggested guidelines for evaluation, 17444  
   pattern change, effects on physiological functions in normal persons, complex investigations, USSR study, 11281  
   survey, Fort Huachuca, Ariz., 14807  
   survey, Republic of Nigeria, 7088  
   USSR research, 1256, 2459, 6511  
   USSR studies, 4987  
 Nutrition Laboratory, *see* Army Medical Research and Nutrition Laboratory.  
 Nutritionist, public health, examination announcement, amendment, 16065  
 Nuts:  
   foreign agriculture circulars, 3345  
   tree nuts—  
     production and marketing research, bibliography, 13233  
     production, use, value, by States, 4145, 14700  
 Nuts (machinery), *see* Bolts and nuts.  
 NYC, *see* Neighborhood Youth Corps.  
 Nyland, Ted W., analysis of liquid-metal quality measurement techniques, 12951  
 Nylon:  
   phenolic, ablative performance, effect of composition, etc., 9889  
   phenolic, low-density ablation material, thermophysical properties, 14377  
 Nystagmus:  
   eye-movements and subjective turning responses to 2 durations of angular acceleration, 15980  
   nystagmic eye movements, influence on adaptation of interruption with opposing stimuli, 7447  
   responses to angular acceleration and to bilateral caloric stimulation following unilateral caloric habituation, 10322  
   visual fixation effects of brief periods on nystagmus and sensations of turning, 15981

O.A.R., *see* Aerospace Research Office.  
 O.A.S.D.I., *see* Old-age, survivors, and disability Insurance.  
 O.A.S.I. series, 1605-6, 2861-65, 5505-13, 7122-28, 8688, 10085, 11795-797, 15739  
 Oahe unit, *see* Missouri River Basin project.  
 Oak:  
   black oak, California, increasingly valuable species, bibliography, 14105  
   burr and red oak, effect of gibberellic acid spray on seedlings, 11129  
   chestnut, suppressed, annual growth, basis for hydrologic inference, 11171  
   cordwood yields from thinnings in young oak stands in Missouri Ozarks, 2307  
   gambel, soil moisture depletion, 4831  
   green, lumber, presurfacing to reduce surface checking, 2301  
   growth retardation under 3 species of oaks, observations, 11130  
   nitrogen fertilization, 2321  
   pin oak flat, converting to pine, 14121  
   red oaks—  
     clearwing borer, 2326  
     coarse feed sawing, limited study, 11111  
     redcedar mixtures established in poor oak-bickory forests, 8073  
     scrub oak areas, tree planting after site preparation with heavy equipment, 8112  
     shrub live oak, control with helicopter-applied herbicides, 14111  
     stands, regeneration in southern Appalachia, 12578  
 Oak Park, Ill., population, special census, 10377  
 Oak Ridge, Tenn., hydrologic data for area, 16704  
 Oak Ridge National Laboratory:  
   conceptual design of 250 MGD desalination plant, 2396  
   dedication of transuranium research facilities (remarks), 1815  
   master analytical manual—  
     indexes, 7428  
     supplement, 7429  
 Oakland, Calif., area wage survey, 9744  
 Oakley Dam and Reservoir, Sangamon River, Ill., designate as Henry Bolz Dam and Reservoir, report, 2100  
 OAR, *see* Aerospace Research Office.  
 OAR Research Applications Conference, proceedings, 7337  
 OASDHI, *see* Old-age, survivors, disability, and health insurance.  
 OASDI, *see* Old-age, survivors, and disability Insurance.  
 OASI series, 1605-6, 2861-65, 5505-13, 7122-28, 8688, 10085, 11795-797, 15739  
 Oaths, requirement in D.C. motor vehicle title transfers, eliminate, report, 12383  
 Oats:  
   futures—  
     commitments of traders, 3112  
     trading and open contracts, 3368  
 Oberholtzer, Betty L., publications of National Bureau of Standards, 9936  
 Oberndorfer, Wolfgang J., equations for thermoelastic and viscoelastic cylindrical sandwich shells, 1436  
 Obesity:  
   and health, source book of current information, 1585  
   body volume of adult men, 14780  
 Objective numerical prediction out to 6 days using primitive equation model, test case, 12479  
 Objectives for Federal funds, 13957  
 Objects affecting navigable airspace, 15238  
 Oblanas, John W., lidar observations of Pre-Gondola 1 clouds, 17397  
 Oblate spheroids, *see* Spheroids.  
 Obolensky, Serge, Greek, basic course, 14677

# INDEX 1967

- OER series, 1941-47, 4431-46, 5951-56,  
7573-80, 8688, 9013-20, 10458-463,  
12132-138, 13455-466, 14880-882, 16100-  
108, 17474-482
- Obraztsov, Nicholas S.:  
neotropical microlepidoptera, revision of  
genus—  
Idolatteria, 8538  
Pseudatteria, 6944
- O'Brien, Gerald D.:  
addresses—  
Jan. 5, 1967, 5370  
Feb. 16, 1967, 7031  
Aug. 5, 1967, 14605  
Aug. 8, 1967, 14603  
Aug. 9, 1967, 14604
- O'Brien, Lawrence F.:  
addresses, etc.—  
Oct. 26, 1966, 1556  
Oct. 31, 1966, 1555  
Mar. 3, 1967, 7106  
Mar. 9, 1967, 7038  
Apr. 12, 1967, 8675  
May 17, 1967, 11691  
May 25, 1967, 11697  
May 29, 1967, 11690  
June 23, 1967, 13049  
July 14, 1967, 14610  
Aug. 30, 1967, 15643  
Sept. 22, 1967, 17109  
Oct. 2, 1967, 17110  
Oct. 24, 1967, 18135
- O'Bryan, Thomas C., Langley lunar landing  
research facility, 6875
- Obscene matter:  
pandering advertisement in mails, not  
desired by addressee, prescribe mailing  
amend U.S. Code, hearing, 10671, 17608  
return of obscene mail, amend U.S. code,  
hearing, 10671, 17608
- Obscenity and Pornography Commission:  
create—  
hearing, 12296  
law, 16145  
report, 14933
- Observatories, *see* Astronomical observa-  
tories—*also* names of observatories.
- Occupational analysis, *see* Job analysis.
- Occupational diseases:  
labor hygiene and occupational diseases  
(USSR periodical), translations, 6510  
State compensatory provisions, 8337  
USSR studies, 1313
- Occupational mental health notes, 17154
- Occupational therapists, Veterans Adminis-  
tration hospitals and clinics, nationwide,  
career information, 14712
- Occupational therapy students, four educa-  
tional opportunities, 8899
- Occupations:  
Air Force, occupational handbook for air-  
men, manual for guidance counselors,  
15902  
America's occupational manpower require-  
ments, 1964-75, study, 6603  
Army, recruiting & career counselling jour-  
nal, 3812  
back-to-work symposium for women who  
want to resume careers, 8798
- career opportunities—  
accountants, economists and transpor-  
tation analysts with Civil Aeronau-  
tics Board, 17448  
Accounts Bureau, Treasury Department,  
5576  
agricultural commodity grader, 9356  
Air Force jobs that count, 10223  
Army crafts program, 7382  
Army, pamphlet, 11989  
attorneys with Civil Aeronautics Board,  
16045  
auditing, reasons for starting with  
Health, Education, and Welfare Dept.,  
8195
- Occupations—Continued  
career opportunities—continued  
Coast Guard engineering team, not for  
ordinary engineer, 218  
college graduates with Army Depart-  
ment, 8877  
commissioned officer in Coast Guard  
Reserve, 10442  
corrective therapists, Veterans Adminis-  
tration, hospitals and clinics, nation-  
wide, 15816  
Defense Contract Audit Agency, audi-  
tors, 9365  
digital computer systems trainee, 6454  
DSA civilian program for automatic  
data processing, 13910  
estate tax examiners, 2404  
Farmers Home Administration, 1036  
Federal Credit Unions Bureau, account-  
ants, 6246  
Federal Water Pollution Control Adminis-  
tration, your career and clean water  
for America, 8012  
Food and Drug Administration—  
clerk typists and stenographers, 8046  
investigator, 11095  
forestry, 5654  
health careers, jobs happen, careers  
don't, 15693  
health workers in Peace Corps, 5377  
Housing and Urban Development De-  
partment, job where the action is,  
4907  
Immigration and Naturalization Service  
immigration patrol inspector, 10435  
Internal Revenue Service—  
international taxation, 8217  
secretarial, 11223  
tax work, 2400  
international agriculture, new careers,  
13234  
liberal arts graduate in Peace Corps,  
5374  
librarians in Federal service, 4404, 10417  
management analyst development pro-  
gram, 9586  
math & science teachers in Peace Corps,  
5380  
National Aeronautics and Space Adminis-  
tration, 11574  
National Labor Relations Board, labor-  
management relations field examiner,  
2748  
oceanography, 1536  
overseas, State Department, secretaries,  
8722  
Post Office Department, research and  
engineering, 7042  
professional accountants in Federal  
agencies in Washington, D.C. area,  
4393  
programmers, IRS, 6459  
public health advisors and analysts,  
10064  
Public Health Service, 11721  
nurses, 10042  
pharmacist, 15676  
physical therapist, 18155  
scientists, 8652  
veterinarian, 18156  
research forestry, research forester, and  
forest products technologist, 4394  
revenue officer, 2409  
social security, 14645  
Soil Conservation Service, 1705, 5655  
Sport Fisheries and Wildlife Bureau—  
fish conservation, 6351  
game management agent, pilot, 6345  
sports and recreation in Peace Corps,  
5384  
State Department—  
communications and records, world-  
wide assignments, 5524  
secretaries, stenographers, typists,  
11831  
teaching in Peace Corps, 5385

Occupations—Continued

career opportunities—continued  
 Treasury enforcement agent, 5575  
 typists and stenographers, Army Department, 8896  
 Veterans Administration, practical nursing, 10127  
 veterinarians, Agriculture Dept., 5657  
 wildlife conservation, 6352  
 women's work in Forest Service, 13231  
 career planning booklet, 6162  
 dictionary of occupational titles—  
     physical demands, working conditions, and training time data, supp., 6205  
     suffix codes for jobs defined, 9417, 10946  
 disabled workers, occupational characteristics by disabling condition, 7079  
 Federal position classification plan, 3389  
 girls, expanding opportunities, their special counseling needs, 11909  
 hazardous job analysis, conducting, 9697  
 Marine Corps—  
     occupational opportunities, 16842  
     outlook for your future as marine, 15461  
 Navy, enlisted programs handbook, 8581  
 Negro's occupational progress, 16829  
 occupational groups and series of classes, handbook, 16079  
 occupational safety aids, 6601, 9697-9720, 12766-16798-809  
 occupational safety charts, 9721-27  
 opportunities for girls in crafts and trades (address), 8796  
 outlook, quarterly, 3649  
 professional, technical, and kindred employment by counties of U.S., 1960, map, 1891  
 publications, price list, 17133  
 selected wage indexes, long-term trend data for metropolitan areas, 5059  
 services for the blind, salaries, 2499  
 so . . . you want to be (series), 15205-207  
 survey data, computation of group job descriptions, 11951  
 wage trends for occupational groups in metropolitan areas, 17901  
 see also Work—also names of occupations, industries, etc.

**Ocean:**  
 acoustics, USSR study, 6587  
 atoms and the ocean, role of nuclear energy in exploring, etc., radionuclides in ocean, 15978  
 exploration (remarks), 1956  
 exploring potential, USSR study, 1165  
 freight rates on military cargoes by U.S. vessels reduced, hearings, 4552  
 inner space, sea of opportunity, 6186  
 International Council for Exploration of Sea, convention, report, 6064  
 measuring ocean bottom irregularities, USSR study, 9650  
 microorganisms of land air mass as it traverses ocean, 68  
 new knowledge from global sea, programs and mission of ESSA's Institute for Oceanography, 16537  
 pollution by oil—  
     international control, report, 16234  
     international convention for prevention, amendments—  
         implementing, hearing, 745  
         text, 5542  
 research development of underwater electronic robot, USSR study, 6563  
 science and the sea, 11649  
 sound scattering, USSR articles, 9627  
 U.S. life lines, 8574  
 United States and world ocean (lecture), 1602  
 volume, monostatic acoustic scattering, 13034

Ocean—Continued

volume sound scattering and measurement of acoustic characteristics of scattering layers, USSR study, 1166  
 see also Sea ice—Seamounts—Waves.  
 Ocean cruises, see Cruises.  
 Ocean currents:  
     deep water isotopic current analyzers, 13328  
     longshore current data, compilation, 10952  
     measuring with EMIT while ship is turning, theoretical foundations of method, USSR study, 1170  
     see also Gulf Stream.  
 Ocean Delight (fishing vessel):  
     documentation with coastwise privileges, report, 10760  
 Ocean Island, see Gilbert and Ellice Islands.  
 Ocean stations, see Weather stations.  
 Ocean temperature:  
     surface temperature gradients observed in marine areas receiving warm water discharges, 14070  
     surface water Pacific Coast, 17466  
 Ocean transportation, see Shipping.  
 Oceania:  
     agricultural data book, 10926  
     agricultural situation—  
         midyear review, 16492  
         1966 review, 1967 outlook, 12455  
     contributions to hydrology of Asia and Oceania (series), 11187  
     market indicators, 9013  
 Oceanographer (ocean survey ship):  
     voyage around the world, welcome aboard, visitor's guide, 7939  
 Oceanographic Data Center, National, see National Oceanographic Data Center.  
 Oceanographic Office, see Naval Oceanographic Office.  
 Oceanography:  
     aquatic sciences, graduate educational grants, 1967-68 academic year, 1077  
     atlas for Tampa Bay, Fla., and adjacent waters of Gulf of Mexico, 12545  
     atlas of Indian Ocean, interpolated values of depth, salinity, etc., 15624  
     atlas of July conditions in northeast Pacific Ocean, 8041  
     biological, of eastern tropical Pacific, 8038  
     career advantages at Naval Oceanographic Office, 1536  
     computer programs, 14570  
     determining depth of zero surface, USSR study, 4952  
     East Siberian Sea, July-Sept. 1964, turbidimetric observations, 9988  
     Elisha Kane, oceanographic ship (USN), general information, 14568  
     ESSA's exploitation of sea's resources by use of McArthur coastal survey ship, 10970  
     films, catalog, 2770  
     foreign monographs, USSR, study, 1176  
     inner space, sea of opportunity, 6186  
     Labrador Sea in vicinity of Hudson Strait, 10445  
     legislation, chronology of related events, 4550  
     marine science affairs, year of transition, report, 9948  
     methods and instruments for marine research, USSR study, 6501  
     National Oceanographic Data Center—  
         publications, 2270, 6996-97, 8568-69, 11629-631, 14570, 15624  
         quarterly accessions, 3636  
     national program, 1042  
     naval weather service computer products manual, 15618  
     Navy ocean science program, accomplishments and prospects, 14598  
     North Atlantic Ocean Station Charlie, observations, 10444  
     observations, tropical Atlantic Ocean, Equatorial III, data report, 8569

- Oceanography—Continued  
 oceanographic and hydrographic systems for training, 11670  
 oceanographic reports, 10444-445  
 oceanographic tables, handbook, 13024  
 oceanographic vessels of the world, 8568  
 oceanography and engineering (address), 12116  
 opportunities, 8682  
 Polar Scientific Research Institute of Sea Fisheries and Oceanography, USSR, activities, 6551  
 Project Sealab, 45-day undersea saturation dive, report, 11669  
 research, Mediterranean Marine Sorting Center, agreement with, Tunisia, 2931  
 sea grant colleges and program act—law, 402  
 reports, 632, 679  
 ship operating—  
 1967 schedules, 7957  
 1968 schedules, 17753  
 Soviet oceanographic ship conducts marine research in Pacific, 14240  
 spacecraft oceanography, United States activities, 18085  
 study guide, to be used with USAFI course A 510, 12438  
 Townsend Cromwell cruises, trade wind zone pilot study, 16627-632  
 underwater electronic robot being developed for ocean research, USSR study, 6568  
 underwater research development, USSR study, 8266  
 United States and world ocean (lecture), 1602  
 USSR, Institute of Oceanology, 20th anniversary, 9622  
 university curricula in marine sciences, 17752  
 water masses in Indian Ocean, variability, 11630  
 Oceanography Institute, *see* Institute for Oceanography.  
 Oceanography, Interagency Committee on, *see* Interagency Committee on Oceanography.  
 Oceanology, *see* Oceanography.  
 Ochirero, Robert V., summary of NODC Ad Hoc Committee and working group activities, 11631  
 Oek Wah Wong, *see* Hom Sheck See, and wife.  
 O'Connell, Joseph J., jr.:  
 addresses, etc.—  
 June 26, 1967, 13015  
 Oct. 18, 1967, 18093  
 Oct. 23, 1967, 18092  
 nomination, hearing, 10823  
 O'Connor, Charles M., industry wage survey, industrial chemicals, 2502  
 O'Connor, John P., power circuits for optimum stepped-wave output in 3-phase single-way static inverters, 10008  
 O'Connor, Lawrence J., jr., nomination, hearings, 6094  
 Oculometer, developed to control machine by eye, etc., 14376  
 Odar, Fuat, forces on sphere moving steadily along circular path in viscous fluid, 10258  
 Odessa, Tex.:  
 area wage survey, 15441  
 District Court, western district, new Midland-Odessa division, create, report, 16235  
 O'Donnell, Patricia M., kinetics of fluorination of beryllium, 12928  
 O'Donnell, William, workmen's compensation, administrative organization and cost of administration, 1358  
 Odontodactylus, *see* Crustaceans.  
 Odors:  
 air pollution study, 5440  
 measurement and control, bionic aspects, USSR study, 9652  
 OE 100, highlighting progress of American education, 6191  
 OEO, *see* Economic Opportunity Office.  
 OEP, *see* Emergency Planning Office.  
 Oertel, G. K., spectroscopic temperature measurements in plasmas, 2714  
 Oettinger, Katherine B., address, July 12, 1965, 1893  
 Off the job safety, Department of Labor safety program, OJS LS series, 16810  
 Office buildings, Federal, Detroit, Mich., name in memory of Patrick V. McNamara, reports, 10727, 17577  
 Office draftsmen, *see* Draftsmen.  
 Office employees:  
 better office skills and service, student manual, 17454  
 clerical, pay, national survey, 2507  
 office assistant, examination announcement, 16080  
 Office equipment, *see* Office furniture and equipment.  
 Office furniture and equipment:  
 copying equipment, GSA handbook, 12595  
 Federal item identification guides for supply cataloging, supplements, 3292  
 office copying processes and equipment, military standardization handbook, 9371  
 office machines, current industrial reports, 8942, 10356, 16000  
 regional contracts for repair and maintenance of selected office machines, savings available through expanded use, General Services Administration, GAO report, 8148  
 shipments by manufacturers, current industrial reports, 5868, 17431  
 traditional executive type, wood, Federal standard, 6313  
 wood, utilized, Federal standard, 2270  
 Office machine operators, examination announcement, 16080  
 Office machines, *see* Office furniture and equipment.  
 Office of Special Assistant to the President for Consumer Affairs, *see* Special Assistant to the President for Consumer Affairs, Office of.  
 Office of Special Representative for Trade Negotiations, *see* Special Representative for Trade Negotiations, Office of.  
 Office of Vehicle Systems Research, *see* Vehicle Systems Research Office.  
 Office space, administrative, provided in major postal facilities, policies and procedures, Post Office Department, GAO review, 4880  
 Office supplies and devices, Federal item identification guides for supply cataloging, supplements, 3292  
 Office workers, *see* Office employees.  
 Officers, *see* Armed Forces—also names of services to which officers belong.  
 Officers' call, theirs to reason why, 15940  
 Offices:  
 office safety, occupational safety aid, 9703  
 preventing office accidents, occupational safety aid, 9713  
*see also* Government offices.  
 Official gazette of Patent Office, 3650  
 Official publications, *see* Government publications.  
 Officials, *see* names of departments, etc.  
 Ogden, Utah, geology and hydrology, 6400  
 Ogives, cylinder body, control jet exhausting radially from nose, interaction effects, 5237  
 Oh, Mi Soon, relief, 12358, 16187, 17502  
 O'Hagan, Maryann J., foreign trade regulations of Central American Common Market, 17478  
 O'Hara, G. J., mechanical impedance and mobility concepts, 5353

Ohio, cull trees, controlling by injecting herbicides, 8088

**Ohio:**

- Appalachian region, hardwood lumber production, costs and returns, 4850
- area measurement reports, 17423
- calymenid and other Ordovician trilobites, 16698
- census of agriculture, 1964, State and county statistics, 10388
- census of manufactures, 1963, area statistics, 1847
- census of mineral industries, 1963, area statistics, 5838
- climatological data, 3096
- county business patterns, 4316, 13378, 14822
- electric rate book, 12512
- landings, fishery products, 3553, 11073
- mineral industry, minerals yearbook chapter, 6663
- precipitation data, hourly, 3401
- southeastern, forestry accomplishments under U.S. agricultural conservation program, 14135
- southwestern, air resource management program, air pollution survey, 11717
- women—
  - family and property law, summary, 13187
  - labor laws, summary, 11912
  - work registration under Federal-State aid to dependent children of unemployed parents, Welfare Administration, GAO review, 11157

**Ohio River and Valley:**

- daily Ohio River bulletin, 3178
- McAlpine Locks and Dam, navigation conditions, hydraulic model investigation, 6210

**Ohio River Division Laboratories, technical reports, 16524, 17734**

**Ohman, John H., effect of staining caused by sapstreak disease on sugar maple log and lumber values, 2306**

**Oil, see Oils—Petroleum.**

**Oil and Gas Office, appropriations, 1968, hearings, 7734**

**Oil fields, see Petroleum.**

**Oil Import Administration, press releases, 3748**

**Oil Import Appeals Board, decisions, 3654**

**Oil pipe lines, see Pipe lines.**

**Oil sand, see Sandstone.**

**Oil shale, development, competitive aspects, hearings, 17659**

**Oil wells, see Petroleum.**

**Oilfields, see Petroleum.**

**Oils:**

- current industrial reports, 3169, 5860, 7478
- fats and oils situation, 3267
- fatty acids, expanding market for oils, 10921
- Federal item identification guides for supply cataloging, supplements, 3290
- foreign agriculture circulars, 3345
- light, yields and analyses from coal carbonization, 16850
- movement in miniature ball bearings; factors affecting, 17089
- outlook (talk), 4704
- prospects for fats and oils and fatty acid industry (talk), 12460
- see also Lubricants—also names of oils.

**Oilseeds:**

- and products, European Economic Community import demand, summary, 4701
- meals, production and use, postwar trends, 9391
- outlook (talk), 4704
- stocks, farm and off-farm, by States, 1959-65, revised estimates, 7300
- U.S. fats and oils, 1909-65, statistics, 4144

**Oklahoma:**

- area measurement report, 5814
- census of agriculture, 1964, State and county statistics, 14837
- census of manufactures, 1963, area statistics, 163
- census of mineral industries, 1963, area statistics, 4295
- Cherokees, Muskogean charm songs among, 6973
- climatological data, 3096
- county business patterns, 12059
- electric rate book, 4778
- farms, growth and capital accumulation, polyperiod analysis, 17336
- highway safety study, Operation 66, joint engineering-enforcement project report, 1594
- livestock and meat industry, price information and market news, 13941
- mineral industry, minerals yearbook chapter, 6664
- Osage pasture report, 14692
- postal map, 5395
- precipitation data, hourly, 3401
- soil survey laboratory data and descriptions, 14660
- water systems, waste disposal systems, financial assistance to small towns and rural groups, questions and answers, 7945
- women workers, 2978

**Oklahoma City, Okla., area wage survey, 2503**

**Okun, Arthur M.:**

- challenges in sustaining prosperity, 5041
- nomination, hearing, 7801

**OLAS, see Latin American Solidarity Organization.**

**Old age, see Aged.**

**Old-age and survivors insurance, OASI series, 1605-6, 2861-65, 5505-12, 7122-28, 8688, 10085, 11795-797, 15739**

**see also Old-age, survivors and disability insurance—Old-age, survivors, disability and health insurance.**

**Old-age assistance:**

- Cleveland, Ohio, area, recipients, nursing home care, etc., GAO report, 8150
- medical care of recipients, recovery of excess funds accumulated, GAO review, 8145
- money payments to recipients, 4751
- tables on percent of basic needs met, 17196

**Old-age insurance, social security rulings, 3881**

**Old-age, survivors, and disability insurance:**

- additional interest earnings of trust funds from 1960 interest rate amendments, 7116
- aid to the blind and OASDI recipients, comparison between beneficiaries and nonbeneficiaries, 11799
- benefits, information, 10085
- household workers and their employers, statistics, 2871
- income status of OASDI beneficiaries with and without private pensions, 5514
- increase benefits, etc., social security amendments of 1967—
  - hearings, 7763, 10684, 15154, 16409
  - reports, 14953, 14964
  - summary, 15053
- long-range level-cost estimates, analysis of fertility assumptions, 15726
- measuring early retirement, revision of benefit awards series, 17198
- payable, actuarial analysis, Arkansas Titan II missile site disaster, 7115
- program, 1965, covering employees also covered under State and local government retirement systems, survey, 2868
- relationship of child beneficiaries to old-age beneficiaries, 1603
- social security handbook, 1606
- social security rulings, 2872



- Old-age, survivors—Continued  
system, 1966, long-range cost estimates, 7118  
widows with children under social security, national survey, 2869  
*see also* Old-age, survivors, disability, and health insurance.
- Old-age, survivors, disability, and health insurance:  
applicants for disabled worker and childhood disability cash benefits, etc., 8691  
comparison of actual experience under OASDHI system with short-range cost estimates, 14644  
economic effects of seasonality in tax payments, 17203  
experience under OASDHI system compared to short-range cost estimates, 7117  
retirement benefits comparison with prices and wages, 1966 experience, 8690  
social security survey, aged population of U.S., 13120  
United States population projections for OASDHI cost estimates, 8686
- Older Americana, Advisory Committee on, *see* Advisory Committee on Older Americans.
- Older persons, *see* Aged.
- Older workers, *see* Labor.
- O'Leary, Timothy J., instructions to supplement teaching oral hygiene, 14769
- Olefina, distillable, identification from coal tar, 12795
- Olfactory sense, *see* Smell.
- Olligophreata, monograph of existing crinoids, 14528
- Ollinger, Arthur J., relief, 12331
- Olives:  
green, U.S. standards for grades, 2140, 16448  
production, use, value, 1965-66, by States, 14696  
Tariff Commission report, 8764
- Ollerhead, J. B., prediction of near field noise of supersonic jets, 14400
- Ollila, Tolvo J., soil survey, Codrington County, S. Dak., 7134
- Olsen, Lief O., bibliography of temperature measurement, 11584
- Olsban, Nathan H., recordkeeping systems, small store and service trade, 2856
- Olson, Katherine M., additions to fused-fluoride lubricant coatings for reduction of low-temperature friction, 5265
- Olson, Keith S., mineral industry of Wisconsin, 6671
- Olson, Pauline T., nomograms for Army manpower policy evaluation, 4227
- Olson, Richard D., naval research reviews, 3607
- Olson, Ronald J., relief, 308, 814
- Olte, Andrejs, radiation of magnetic line source excited cylinder through plasma sheath, 5176
- Olympic National Park, general information, 8963
- Omaha, Nebr., area wage survey, 6605
- Omaha Tribe of Nebraska:  
disposition of judgment funds—  
law, 431  
report, 913
- O'Malley, Lambert S., address, Nov. 17, 1967, 17708
- Oman, P. W., collection and preservation of insects, 10182
- O'Marra, John L., nomination, hearing, 13881
- Omniranges, mechanical device accurately measures RF phase differences in VHF or UHF ranges, 6848
- Omodt, Hollis W., soil survey of Tri-County area, N. Dak., 8702
- On, Frank J., mechanical impedance analysis for lumped parameter multi-degree of freedom/multi-dimensional systems, 11489
- On-the-job training, *see* Employee training.
- Onanian, Edward D., analysis of work stoppages, 5060
- Oncology:  
clinical, utilization of cybernetics, USSR study, 6553  
oncological service is RSFSR, improving, 2477  
Soviet research, 8257  
viruses in oncology, USSR study, 14258
- One-count memory circuit prevents machine mode interaction, 6697
- One million dropouts Sputnik of 1967, 17721
- One-room schoolhouse and how it grew, 10938
- One thin dime, 12787
- O'Neill, Eugene, \$1 regular postage stamp (poster), 15648
- Onigman, H. D., nuclear superheat project, 5773
- Onions, stocks, 5554
- Ontario, Calif.:  
area wage survey, 5067  
World Farm Center, endorse concept, 13626
- Ontario, Lake:  
small craft, gale and whole gale warning facilities chart, 14723  
water pollution control program, 9501
- Ontogeny, influence of ribonuclease on reflexes of mice in ontogenesis, USSR study, 5028
- OP series, 7009
- Open every door, 13183
- Open pit mining, *see* Mines and mining.
- Open space land planning and taxation, selected bibliography, 12627
- Operation and maintenance of diesel-electric locomotives, 1772
- Operation Golden Eagle:  
1967 directory of Federal recreation areas requiring entrance and user charges, 13041  
outdoor recreation, questions and answers, 7030
- Operation Hygrade, anatomy of shutdown, 13972
- Operation Late Start, on-the-job training for older workers, 16791
- Operation Plumbbob (nuclear effects test):  
fallout, distribution, characteristics, and biotic availability, 1812
- Operation 66, JEEP, joint engineering-enforcement project, highway safety study report, 1594
- Operational unification of finite difference methods for numerical integration of ordinary differential equations, 11559
- Ophthalmoscopy, indirect light approach, USSR study, 12688
- Opinions, *see* names of courts, etc., rendering opinions.
- Opium, traffic, 17918
- Oppenheim, Edward E., cost reduction journal, 3154
- Opportunities for volunteers in public welfare departments, 13184
- Opportunities in oceanography, 8682
- Opportunity in rural America, story in pictures and words, 5674
- Opportunity knocks at executive suite, remarks, 17044
- Optical character reader, addressing for reader, 17111
- Optical illusion, aircraft accidents and visual illusions, 11958  
*see also* Distortion.
- Optical instruments and apparatus:  
raster optical instruments, USSR, 6505  
wide-angle, indirect optical viewing system in high-performance jet aircraft, flight tests, 1497
- Optical monitor panel provides flexible test panel configurations, 2634
- Optical radar measurements of atmosphere, 8420
- Optical radiation, *see* Radiation.
- Optical signals, *see* Signals.



Optical superheterodyne receiver uses laser for local oscillator, 6753

Optical systems:

- depth of flash optical landing system, 13032
- development of optical waveguides and components, 15508
- optical and microwave communications, a comparison, 11529
- scanning, information limits, theoretical investigation, 5173

Optical targets, *see* Targets.

Optics:

- automatic gain channel, 6761
- improved grazing incidence X-ray laboratory program to develop, 6726
- optical properties of coals and graphite, 16849
- optical terms and definitions, military standards, 13921
- systems and elements, classification bulletin, 5368
- see also* Electrooptics—Light.

Optimal control:

- optimal and adaptive control theory, 8414
- problems, Lagrange problems with variable end-point, 14386
- problems, USSR study, 4959

Optimal processes:

- analysis and design of space vehicle flight control systems, optimization methods, 15499
- computer optimization program finds values for independent variables that minimize dependent variable, 17958
- dynamic programming and—
  - application to optimization problems of flight mechanics, 11572
  - Pontryagin's maximum principle, 14387
- geometric theory of optimum disorbit problems, 8427
- optimal speed and optimal control problems, USSR study, 4959
- selection of working communication frequencies, Soviet research, 6518
- trajectory optimization for Apollo-type vehicle under entry conditions encountered during lunar return, 9919
- treating optimal trajectories with restricted segments, 9805
- weight optimization of straight finned radiators, design procedure, 6781

Optimal temperature regimes for thermophilic *Chlorella* investigated, USSR, 1265

Optometry:

- group practice facilities, financial assistance for constructing and equipping, law, 465
- summary, section-by-section analysis, legislative history, and conference report, 725
- practice in District of Columbia, regulate, hearings, 16319

Oral diseases, *see* Mouth.

Oral hygiene, *see* Mouth.

Orange, Thomas W., fracture toughness of wide 2014-T6 aluminum sheet at  $-320^{\circ}$  F, 12036

Orange, Tex., area wage survey, 14294

Orange County, N.Y., population, special census, 16017

Orange juice:

- canned, standards for grades, amdt., 6128
- from concentrate, U.S. standards for grades, 16449
- pasteurized, U.S. standards for grades, 16450

Oranges, degreening response of color-sorted Florida oranges, 17300

Orbital tube flaring system produces tubing connectors with zero leakage, 8454

Orbiting solar observatory, *see* Satellites.

Orbitron ionization gages, *see* Ionization gages.

Orbits:

- circular, manual control of thrust axis during planar ascent from lunar surface, 1490, 14449
- computing in celestial mechanics, regularization, 12857
- Cosmos satellites in near-earth orbits, USSR study, 5017
- cryogenic liquid experiments in orbit, 5164
- elliptic, minimum-impulse time-free transfer between, 1432
- geometric theory of optimum disorbit problems, 8427
- gravity-oriented satellites, adjust and station keeping method, mathematical model and study, 2688
- low-thrust orbit raising in continuous sunlight while thrusting in plane perpendicular to earth-sun line, 15567
- lunar, analysis for improved delta launch vehicle and AIMP-D spacecraft, 11495
- Lunar Orbiter I—
  - extended mission operations, 14395
  - photographic mission summary, 8429
  - photography, 14394
- lunar orbiting space vehicles, computer program determines thermal environment and temperature history, 16951
- manned orbiting space station, thermal control considerations, 11538
- Mercury-Atlas 7, spacecraft 18, 2d manned 3-pass orbital mission, description and performance analysis, 6865
- orbital investigation of propellant dynamics in large rocket booster, 11517
- orbital prediction and differential correction using Vinti's spheroidal theory for artificial satellites, 8482
- orbital recovery problem, rapid determination of return and lateral-range for recall to recovery networks, analysis technique, 12969
- orbital recovery programs, selection of recovery sites for return from low circular orbits, application of analysis technique, 12970
- orbiting radiotelescope, 1500-meter, feasibility, 11414
- position control for passive communications satellites, handbook, 11398
- resonant librating, use in satellite geodesy, 14476
- solar, unguided solid fuel rocket vehicle, feasibility, parametric design, and analysis, 12853
- Vinti's accurate reference satellite orbit with inclusion of 3d zonal harmonic, differential corrections, 15564

Orchards, apple, young, establishing and managing, 5625

Orchids, plants, import requirements of Australia, 13206, 17302

Orconectes, crayfish from Alabama caves, origin of genera *Orconectes* and *Cambarus* (Decapoda: Astacidae), 17050

Orcutt, F. K., journal bearings in laminar and superlaminar flow regimes, 9803, 12849

Orders, *see* names of departments, etc., issuing orders—*also* subjects.

Ordinance of 1787, text, 10691

Ordman, Arnold:

- nomination, hearings, 12421
- paper, Mar. 3, 1967, 6937

Ordinance:

- Coast Guard manual, amdt., 4417
- machinery, industrial plant equipment handbook, 9367
- pamphlet, Naval Ordnance Systems Command, 7009
- timers, symposium, proceedings, 104
- see also* Atomic ordinance—Fire control (gunnery).

Ordnanceman, *see* Aviation ordnanceman.

Ordos Desert, geographical study, 2434

- Ordovician period :  
 contributions to Ordovician paleontology of Kentucky (series), 16697-698  
 Martinsburg formation in Delaware Valley, Pa.-N.J., middle and upper Ordovician, 6395  
 Middle, brachiopods and trilobites from basin ranges, Western U.S., 11174  
 rocks of east-central Alaska, stratigraphy, 6404  
 silicified Middle Ordovician brachiopods from Kentucky, 16697  
 trilobites from Kentucky and Ohio, 16698  
 Upper Ordovician formations in Maysville area, Ky., 2361  
 Ore flotation, *see* Flotation.  
 Ore Knob, N. C., copper deposit, 15310  
 Oregon :  
 Blue Mountains, defect estimation for grand fir, Engelmann spruce, Douglas-fir, and western larch, 2289  
 census of agriculture, 1964, State and county statistics, 13412  
 census of manufactures, 1963, area statistics, 1848  
 census of mineral industries, 1963, area statistics, 5839  
 climate, 16531  
 climatological data, 3096  
 coast pilot supplement, 5944  
 county business patterns, 174, 13379, 17427  
 eastern, spruce budworm outbreak, 1944-56, differential effects, 1097  
 electric rate book, 11023  
 insect outbreaks, 2291, 17797  
 interstate route 80N, John Day River Bridge, review of circumstances relating to collapse, GAO report, 4877  
 landings, fish and shellfish, 17769  
 low temperature reaction zones and alpine ultramafic rocks, 17817  
 mineral industry, minerals yearbook chapter, 2561  
 precipitation data, hourly, 3401  
 streams, water temperature data, correlation and analysis, 8177  
 water supply outlook and snow survey, 4049  
 women workers, 2979  
 Oregon (fishing vessel) :  
 exploratory collection made in southwestern North Atlantic, 1956-60, correction, 8035  
 Oregon State University, Radiation Center dedication (remarks), 17407  
 Ores :  
 and primary products, Federal item identification guides for supply cataloging, supplements, 3291  
 deposits—  
 Philipsburg district, Granite County, Mont., 15305  
 Steeple Rock mining district, Grant County, N. Mex., 6390  
 dressing, heavy liquid cyclone concentration, 12822  
 Lawson-Dumont-Fall River district, Clear Creek County, Colo., 16683  
*see also* Assaying—also names of metals or minerals.  
 Oresund, sailing directions, change, 17070  
 Organ Pipe Cactus National Monument, general information, 14552  
 Organic chemistry :  
 Academy of Sciences, USSR, report, 6579  
 progress report of Organic Chemistry Section, 18081  
 USSR recent studies, 2444  
 Organic Chemistry Section, annual report, 18081  
 Organic compounds :  
 adsorption at electrodes, 10003  
 charcoal, NMR method for determining organic loading, 14597  
 classification definitions, 18133  
 Organic compounds—Continued  
 organic phosphorus pesticides, commercial names, shipping containers, etc., technical reference, 9734  
 organic substances in water (series), 15312  
 spreading of organic liquids on soda-lime glass, effect of absorbed water, 18110  
 synthesis of cyclic sulfides, 12823  
 synthesis of research materials, 18081  
 synthetic chemicals, production and sales, 13159  
 dyes, 13160  
 elastomers, 13161  
 flavor and perfume materials, 14703  
 medicinal chemicals, 18238  
 pesticides and related products, 8766  
 pigments, 14704  
 plasticizers, 17256  
 rubber-processing chemicals, 15807  
 synthetic organic chemicals, production, preliminary report, 3700  
 Organic matter :  
 chemical nature of organic matter in water of major rivers in USSR, 9614  
 trace organic materials in water, methods for determination, 6451  
 Organick, Avrum B., indirect hemagglutination test for *Mycoplasma pneumoniae* employing commercially available antigen and adapted to microtiter technic, 5754  
 Organisms :  
 factors contributing to increased resistance of the organism, 11277  
 formation of interferon in organism of experimental animals, characteristics, USSR study, 4989  
 human, space psychophysiology, effect of high and low afferentation, USSR studies, 1345  
 organism reactivity to disease development, USSR book excerpts, 16741  
 Organization :  
 safety organization in industry, instructor outline, 8289  
 scientific organization of work and training of industrial workers, USSR studies, 16752  
 Organization charts :  
 Air Force, 3012  
 Army Department, 3393  
 Federal executive departments and agencies, 10847  
 Organization for Economic Cooperation and Development, Atlantic industrial community looks to the future (remarks), 10451  
 Organization in industry, industrial application of automatic control systems and computers, 6509  
 Organization manual (Coast Guard), 4418  
 Organization of American States :  
 charter, protocol of amendment, text, 10703  
 headquarters site in D.C.—  
 hearings, 6033  
 report, 7701  
 political prisoners and their relatives in Cuba, report of Inter-American Commission on Human Rights, hearings, 957  
 Organization of Congress Joint Committee, continue and provide additional funds, report, 13791  
 Organization of Congress, Special Committee on, Senate, *see* Congress, Special Committee on Organization of, Senate.  
 Organizations :  
 Bulgarian scientific, decrees on operating under their own accounting systems, 6586  
 contributions to, which are deductible for income tax purposes, list, 12646  
 supplements, 3166  
 scientific, operating under their own accounting systems, Bulgarian decree, 5030

## Organizations—Continued

- scientific research, cost accounting, USSR study, 1343
- sources, Indian and Eskimo arts and crafts, list, 12639
- USSR, scientific organizations, development, 1227
- withdrawal of cash from Treasury for advances under Federal programs, 7207
- see also Nonprofit organizations.
- Organized crime, see Crime and criminals.
- Organizing a Federal credit union, 14018
- Organizing food training program, 17722
- Organophosphorus compounds:
- anticholinesterase activity of organophosphorus inhibitors, USSR study, 1168
  - anticholinesterase properties of O-H-alkyl-S-butyl methyl thiophosphates, USSR study, 8276
  - antidotes against intoxications, Rumanian study, 11271
  - intoxication, clinical and therapeutic aspects, Polish study, 4935
  - mechanisms of physiological action, USSR studies, 6512
  - poisoning by pesticides, detection using automated method, 13351
- Organotin compounds used in control of plankton growth, USSR, 2460
- Organs:
- cell tissue and organ culture, 2d decennial review conference, 18172
  - transplantation, experimental, USSR studies, 9643
- Orientações, E. U. A., 15813
- Orientation:
- human dynamic space, and vestibular system, 1428
  - Lamb-wave technique, use for improved ultrasonic TV images, 15494
  - solar, of spacecraft, effect of planetary albedo, 16985
- Orifices, size, and heat-transfer rate, effect on measured static pressures in low-density air-heated wind tunnel, 6876
- Origin and dynamics of ocean waves, 12674
- Orlando, Fla., aerial radiological measuring survey of area, 1780
- Ornamental plants, see Plants.
- Ornamentation, see Decoration and ornament.
- Orning, George W., private pleasure boating in national forests of Minnesota, 8068
- Orsino, R. J.:
- computer program for NRL satellite position display, 8595
  - simplified prediction equations for NRL satellite position display, 5349
  - SPAD formatter, buffer interface between satellite prediction computer and display, 8593
- Orth, Donald J., dictionary of Alaska place names, 14174
- Orthicons, electronic shutter gates image, orthicon on and off, 15540
- Orthogonal functions, see Mathematics.
- Orthogonalization procedure for multivariable function approximation, 6749
- Orthopedic stretcher with average-sized person can pass through 18-inch opening, 5222
- Orthostasis:
- forearm vascular responses, 4175
  - tilt table orthostatic tolerance test, biomedical monitoring during dynamic stress testing, 7362
- Orthotics, examination announcement, 17455
- Ortmeyer, Carl E., marriage statistics analysis, United States, 5471
- Orton, Robert B., Mineral Wells, Tex., climatic summary, 12478
- Ortuglio, Carmen, correlation of BM-AGA carbonization yields from 13- and 18-inch-diameter retorts, 2575

- Osborn, Ben O., soil conservation, devoted to wise use of land and water resources, 3883
- Osborn, Howard A., Brazil's position in world agricultural trade, 17713
- Osborn, M. J., fluid amplifiers, bibliography, 11400
- Osburn, M. R. controlling insects and diseases of pecan, 1679
- Oscillations:
- acoustic, in simulated rocket combustion chambers, mechanical absorption, 5264
  - cone, problem solved in supersonic flow by small perturbation techniques, 6849
  - elastic, measurement of propagation velocity in surface layers of Indian Ocean water, on 36th cruise of USSR experimental ship Vityaz, 15353
  - forced discontinuous, fluid in pipeline, 6912
  - Gemini configurations, stability in pitch and yaw, errata, 1474
  - liquid, flexible and rigid ring baffles for damping in large scale cylindrical tanks, effectiveness, 8493
  - pump, reduced by negative feedback system, 8473A
  - system precisely controls oscillation of vibrating mass, 16938
- Oscillations (electric):
- plasma, stimulated by pre-bunched electron beam, 12870
- Oscillators:
- fluidic, used as humidity sensor, 8473
  - temperature-compensated subcarrier, design, 15534
  - see also Lasers.
- Oscillograph, channel selection, acceleration by use of color-coded sleeve shutters, 17991
- Oscillography, see Tachoscillography.
- Oscilloscopes, used as X-Y plotter or 2-dimensional analyzer, 15539
- Osmium, sliding friction, 15578
- Osmosis:
- reverse—
  - brackish well water tests at Midland, Fort Stockton, and Kermit, Tex., 11217
  - desalination pilot plant, operation, 2395
  - membranes containing graphitic oxide, 6444
  - membranes for desalination, study, 6448
  - membranes, new polymer systems, research and development, 8213
  - one mgd brackish water plant, spiral module concept, parametric study, 9590
  - permeability requirements of membranes for use in desalination, 15331
  - Potomac River, 6441
  - systems, simultaneous development of velocity and concentration profiles, 11218
  - test, acid mine water at Kittanning, Pa., 4915
  - ultrafiltration membranes, fabrication and evaluation, 12641
  - vapor gap, osmotic distillation process, 2394
- Osteoarthritis, in adults, by selected demographic characteristics, etc., 5468
- Ostracoda, see Crustaceans.
- Ostrom, Arnold E., defense transportation, Military Traffic Management and Terminal Service, 16731
- OSTS, see State Technical Services Office, Commerce Dept.
- O'Sullivan, Thomas C., relevance of factor analysis to study of arms control and limited war, 15924
- Oswald, Daniel D.:
- commercial forest area and timber volume in California, 4859
  - forest statistics for Del Norte County, Calif., 4860

# INDEX 1967

- Oswalt, Noel R., Hilo Harbor tsunami barrier, 2220
- Oswalt, Wendell H.:  
ethnarcheology of Crow Village, Alaska—  
departmental edition, 8872  
document edition, 9048
- Ota, Hajime, houses and equipment for laying hens, for loose housing, 10183
- Otapiria, *see* Pelecypods.
- Otelza, Alberto, relief, 554
- Otepka, Otto, case, hearings, 2131
- Other war in Vietnam, progress report, 1151, 1627
- Otis, Leon S., animal research in psychopharmacology, index for psychopharmacology handbooks, 7083
- Otoliths, orbital otolith experiment, temperature control, 12868
- OTR series, 2742
- Ottawa, Ohio:  
Maumee River basin, engineer report—  
departmental edition, 2212  
document edition, 2001
- Ottawa Indians:  
judgment funds, disposition—  
law, 14907  
reports, 12268, 13829
- Otter Creek, coral bed and its fauna, east-central Kentucky, 6394
- Otto, Francis L.:  
construction safety, site clearing, 17887  
safety inspection procedures, 8290  
safety training programs, instructor outline, demolition, 1357
- Ouachita River, Columbia Lock and Dam, navigation conditions, hydraulic model investigation, 6212
- Oudenhoven, Martin S., rock bolt anchors, 5126
- Outline, John A., all hands, Naval Personnel Bureau career publication, 3025
- Our American Government, what is it? how does it function? 5977
- Our American land, use the land, save the soil, 15839
- Our American way of life, 11211
- Our changing partnership with Europe, report of special study mission, 7744
- Our common task, address, 2188
- Our flag, 519  
print as House document, reports, 13652, 13819
- Our Government, 12630
- Our Lady of Pillar Catholic Church, Santa Ana, Calif., relief, 13574
- Our market is the world, our product the individual, 12473
- Our struggle against pests, 1716, 7290
- Our United States, 12629
- Ourlin, Miriam A., post layoff labor market experiences of former Republic Aviation Corporation (Long Island) workers, 5719
- Outdoor recreation, *see* Recreation.
- Outdoor recreation act (periodical), 3664
- Outdoor Recreation Bureau:  
appropriations, 1968, hearings, 7734  
grants-in-aid manual, 7026-28, 13037-40  
press releases, 3749  
programs, briefing session, hearings, 10655
- Outdoors USA, 17325, 17566
- Outer Banks:  
between Ocracoke Inlet and Beaufort Inlet, hurricane survey, engineer report—  
departmental edition, 2215  
document edition, 2004  
dune stabilization with vegetation, 16523
- Outer Continental Shelf lands act, *see* Continental Shelf.
- Outer space:  
activities of Federal departments, etc., investigation, authorization, report, 4605  
aerospace companies, backlog of orders, current industrial reports, 3170, 13386  
aerospace measurement techniques, symposium, 6734
- Outer space—Continued  
aerospace safety (periodical), 2993  
aerospace technology positions with NASA, 7536  
applications, for benefit of mankind, survey, 9824  
applications, 1965, significant achievements, 6735  
astronomy in space, 8434  
code of Federal regulations, 7977, 9462-63  
coding system for deep space probes, 14493  
cryogenic liquid experiments in orbit, settling and interface dynamics, 2608  
defense space research facility, agreement with Australia, 7189  
education, exploration, research and technology, publications, price list, 5419  
electron tubes for space applications, requirements, 5231  
ESSA weather watch in space, 1033  
exploration—  
and use, treaty on principles governing activities of states, analysis and background data, 7791  
from Rummymede to Ganymede (address), 18059  
PACAF bibliographies, 10227  
peaceful, U.S. launch vehicles, NASA facts, 9822  
possibilities and prospects of use of hypothermia, USSR study, 16768  
extravehicular protection and operations, study, 12859  
5-cent twin space commemorative postage stamps (poster), 17114  
future national space objectives, 2058  
geophysics and space data bulletin, 3377  
information from Cosmos satellites in near-earth orbits, USSR study, 5017  
internally and externally finned radiators for Brayton cycles in space, exploratory study, 8405  
international cooperation (remarks), 2734  
life support system for flights of extended time periods, 1425  
locomotion device, extravehicular, jet shoes, 8483  
lunar science and exploration, 1967 summer study, 17952  
manned extravehicular activities in assembly and operation of large space structures, 16901  
medical benefits from space research, 17948  
NASA, 20th century explorer into sea of space, guide to careers in aerospace technology, 11574  
national space program, its values and benefits, 9169  
near-space environment, 11575  
nuclear systems program, AEC authorizing legislation, 1968, hearings, 10491  
observation of distant man-made space objects, USSR study, 16765  
opaque sphere in space, theoretical solution on nonlinear problem of transient cooling, 14458  
physiological measurements during space travel, USSR study, 8243  
physiology of work in space, USSR study, 8247  
power systems advanced technology conference, 1440  
protons and space travel, introduction, 1731  
psychophysiology, effect of high and low afferentation on human organism, USSR studies, 1345  
radiation equivalence for permanent damage to transistors, 14380  
research and development, by-products (address), 5280  
research, investigation—  
authorization, report, 7671  
expenses, report, 10554

Outer space—Continued  
 research review, Office of Aerospace Research (periodical), 3827  
 role of vestibular organs in exploration of space, 5191  
 satellites and space probe projects, 1966 summary, Goddard Space Flight Center, 12846  
 science and technology of aerospace, NASA Scientific and Technical Information Facility, 8432  
 scientific and technical aerospace reports, 3850  
   Government-wide index, 3381  
   indexes, 3851  
 shapes of tomorrow, space oriented geometry for secondary levels, supplement, 8513  
 solid-state wide-range low power camera timer for space applications, 5240  
 Soviet bloc research (periodical), 3886  
 space, new frontier, 9821  
 space program—  
   in post-Apollo period, report, 7050  
   international significance (address), 2733  
 space progress (address), 5281  
 speaking of space and aeronautics (series), 2733-34, 5280-81, 9932, 17022, 18059  
 star/horizon simulator used to test space guidance system, 11447  
 treaty—  
   bearings, 9313  
   message from the President, 6061  
   report, 9187  
 United States activities, annual report, 5994  
 USSR activities, brief recapitulation, 1305  
 USSR programs, 1962-65, goals and purposes, achievements, plans, and international implications, 4628  
   *see also* headings beginning Space.  
 Outgassing, rates for solid rocket fuels in vacuum, 5262  
 Outlaw, R. A., small volume, ultrahigh vacuum system for ionization gage studies, 18037  
 Outlet works, *see* Reservoirs.  
 Outlying possessions:  
   dutiable status of imports from insular possessions, amend tariff schedules—  
     law, 509  
     report, 911  
   U.S. trade, monthly report, 3359  
 Outpatient services, *see* Clinics—Hospitals.  
 Output, *see* Production.  
 Ovarian cancer, *see* Cancer.  
 Overflow system for standard U.S. Weather Bureau evaporation pan, 2318  
 Overhead electric lines, *see* Electric lines.  
 Overseas service:  
   Defense Dept. personnel, air transportation of dependent children, GAO review, 9545  
   opportunities for secretaries in Foreign Service, 8722  
 Overseas activities in support of modern foreign language and area studies, 16506  
 Overseas business reports, 229-233, 1941-47, 3666, 4131-46, 5951-56, 7573-80, 9013-20, 10458-463, 12132-138, 13455-466, 14880-882, 16100-108, 17474-482  
 Overstreet, John M., ESSA world, 3243  
 Overstreet, William C., geologic occurrence of monazite, 17826  
 Overtaking and passing on 2-lane rural highways, 14641  
 Overtime, *see* Hours of labor.  
 Owen, R. W., Jr., atlas of July oceanographic conditions in northeast Pacific Ocean, 8041  
 Owen, Robert A., relief, 609, 7644, 12355, 13484

Owens, James M.:  
 addresses—  
   Oct. 28, 1966, 142  
   Jan. 23, 1967, 5806  
 Oxidation:  
   anodic, of PbSO<sub>4</sub>, etc., plate materials of lead-acid cell, 11672  
   graphite, catalytic effect of impurities, 18040  
   JT graphite composites, static, subsonic, and supersonic test, 18053  
 Oxide cathodes, *see* Cathodes.  
 Oxides:  
   bonding of oxides of high temperature alloys, 10016  
   fibering, in refractory-metal matrices, 9900  
   film on metal substrate reduced to form metal-oxide-metal layer structure, 12841  
   oxide dispersion strengthened alloys, 17951  
   oxide-glass compositions, hot rolling, 12820  
   *see also* oxides by name, e.g., Graphite oxides.  
 Oxidizer valves, *see* Valves.  
 Oxidizing agents:  
   oxidizer-rich oxygen-hydrogen combustion characteristics, preliminary investigation, 2708  
   solid oxidizer added to liquid fuel increases specific impulse, 9831  
 Oximes, monoquarternary dioximic compounds, as antidotes against intoxications with organophosphoric compounds, Rumanian study, 11271  
 Oxygen:  
   absorption coefficients of O<sub>2</sub> at oxygen windows, 18050  
   and potent pint, equipment required at high altitudes, 8921  
   atoms, reaction rates with carbon monoxide, 16997  
   blood, saturation determined by transmission spectrophotometry of hemolyzed samples, 16936  
   breathing oxygen effects upon night vision thresholds, 11347  
   combustibility of materials in oxygen-helium and oxygen-nitrogen atmospheres, 5706  
   concentrated, chlorate candle provides source, 14410  
   consumption in living tissues, effect of chemically inert gases, 5708  
   coupled vibrational-dissociational flows over wedge, effects of measured dissociation-rate constants, interpretations, 12943  
   deficit incurred during hypoxia and relation to excess lactate, 7355  
   dilute, viscosity and thermal conductivity coefficients, 5293  
   effect on dog plasma sulfhydryl groups in vitro, 5712  
   effect on flammability of materials in hyperbaric atmospheres, 11675  
   effects of 100% oxygen at reduced pressures on behavioral changes in rats at ground level following gestation and growth, 15899  
   enriched blast injection, blast furnace operation, 12828  
   environment at 210 mm. Hg absolute, effects on rats, 1740  
   equipment, civil aviation, physiological protective efficiency, techniques for evaluating, development, 15079  
   fire protection problems, 17816  
   gaseous-hydrogen-liquid-oxygen rocket combustion at supercritical chamber pressures, 17001  
   head lettuce held in low-oxygen atmospheres, market quality and rate of respiration, 10180  
   in general aviation, 4250

# INDEX 1967

## Oxygen—Continued

- intermittent 98 percent oxygen and 380 mm. Hg total pressure, influence on susceptibility to tularemia, 5715
- liquid, and gaseous-hydrogen combustors, chugging instability, 11547
- liquid oxygen ducting cleaned by falling film method, 16947
- low-pressure pure environment, rats born and raised in, energy metabolism, 5709
- man in oxygen-helium atmosphere—
  - behavior factors, 86
  - blood enzyme response, 85
  - clinical observations, 90
  - enteric microbial flora, 79
  - excretion of steroids and catecholamines, 7366
  - exercise and cardiovascular response, 88
  - heat exchange, 81
  - introduction and general experimental design, 91
  - major and minor atmospheric components, 89
  - nutritional evaluation, etc., of feeding bite-size foods, 82, 83
  - oral, cutaneous and aerosol bacteriologic evaluation, 84
  - renal response, 87
  - respiratory function, 80, 92
- new electrolyte may increase life of polarographic oxygen sensors, 6740
- nitrogen-oxygen mixture, vibrationally relaxing, centered one-dimensional unsteady expansion, 6858
- oxidizer-rich oxygen-hydrogen combustion characteristics, preliminary investigation, 2708
- phase relations in uranium monocarbide region of system uranium-carbon-oxygen, 12821
- photodesorption from nickel oxide powder, 16995
- physiological, psychological, and bacteriological aspects of 20 days on 100% oxygen, etc., 6723
- recombination of carbon monoxide and atomic oxygen at high temperatures, 2718
- regeneration from carbon dioxide—
  - by electrolysis in solid oxide electrolyte cell, 6715
  - on spacecraft, electrolysis cell, 2607
- spacecraft atmosphere, Apollo accident, hearings, 6088-89, 9299, 10796, 12396
- steelmaking, effect of lime structure, 6682
- tissue oxygenation during hemorrhage in dogs breathing 1 and 3 atmospheres of oxygen, 15895
- titanium alloy system and titanium chlorides in molten sodium chloride, reaction rates, 14359
- treatment of altitude disbarism with oxygen under high pressure, 7367
- uptake in mice, effect on inert gases and low pressure normoxic environments, 76
- low pressure normoxic environments, 76
- Oxygen masks:
  - constant-flow phase dilution designs for general aviation, performance characteristics, 17412
  - passenger disposable, physiological protective efficiency of new prototype mask, 4248
- Sierra, hanging, quick-don crew, pressure breathing, evaluation, 4249
- Oxyhemoglobin, dissociation, effect of nitrogen dioxide-nitrogen tetroxide, 13270
- Oyarzun, Ramon E., relief, 12340, 16211
- Oysters, certified shipper, list, 3089
- Ozark Mountains:
  - Appalachian loblolly grows well, 2320
  - cordwood yields from thinnings in young oak stands, 2307
  - rural industrialization, case study, 17711

## Ozark Mountains—Continued

- shortleaf pine seedling inventory methods on broadcast-seeded areas, 8072
- southwest Missouri, establishing grass range, 14092
- Ozolins, Guntis, rapid survey technique for estimating community air pollution emissions, 7062
- Ozone:
  - accidental poisoning in workers, prevention, 2820
  - use in tomato ripening rooms, 5
- P
- P&SA, *see* Packers and Stockyards Administration.
- P.C.M.R., *see* President's Committee on Mental Retardation.
- P.H.S., *see* Public Health Service.
- P.P.C. series, 3667
- P.R.L., *see* Personnel Research Laboratory.
- PA series, 43-49, 1710-18, 4128-37, 5666-77, 7281-93, 8838-45, 10188-194, 11937-938, 12325-237, 14754-758, 15866-871, 17326-330
- PACAF basic bibliographies, 4169, 7338, 8866-67, 10227-230, 11950, 13266
- Pace, George M., evaluation of Dynasect for non-destructive testing of portland cement concrete pavements, 16524
- PACE (Projects to advance creativity in education), *see* Elementary education—Secondary education.
- Pacesetters in innovation, 10941, 17723
- Pacific area:
  - airman's guide and chart supplement (periodical), 3668, 12500
  - Asia, Pacific and United States, hearing, 6099
  - central, Marine Corps operations in World War II, history, 12783
  - climatological data, 3096
  - East Asia and Pacific series, 7143, 8713-16, 11822-824, 13137-138, 14672-673, 17218-220, 18228-229
  - echo of progress (remarks), 10452
  - Federal Aviation Administration, procurements, and costs of dedication ceremonies, GAO review, 11155
  - great potential for tourism (remarks), 9022
  - PACAF basic bibliographies, 4169, 7338, 8866-67, 10227-230, 11950, 13266
  - South, mineral industry, regional review, minerals yearbook chapter, 6673
  - southwest, Japanese operations in World War II, reports of Gen. MacArthur, 11992
  - travel industry, planning for future expansion (remarks), 8975
- Pacific basic bibliographies, 4169, 7338, 8866-67, 10227-230, 11950, 13266
- Pacific basin market for wood products for military support activities, 1098
- Pacific Coast:
  - coast pilots—
    - Alaska, Cape Spencer to Beaufort Sea, supplement, 5945
    - Alaska, Dixon Entrance to Cape Spencer, supplement, 7554
    - California, Oregon, Washington, and Hawaii, supplement, 5944
  - fisheries, annual summary, 9510
  - light list, 16089
  - nautical chart catalog, 7558
  - North America and Asia, tidal current tables, 16087
  - storm warning facilities chart, Canadian border to Eureka, Calif. and Alaska, 14717
  - surface water temperature and density, 17466
  - transportation lines, 13984
  - see also* Pacific States.



**Pacific Islands:**  
 light list, 16089  
 lights and fog signals, list, change, 1537.  
 7004, 11642, 18099  
 plants, studies, new and noteworthy flowering plants from Fiji, 12997  
 sailing directions, change, 11638  
 surface water temperature and density, 17466  
 western, chitons and gastropods, Halio-  
 tidae through Adeorbidae, 4890  
**Pacific Islands Trust Territory, see Trust Territory of Pacific Islands.**  
**Pacific Northwest, see Northwest (U.S.).**  
**Pacific Northwest Forest and Range Experiment Station:**  
 annual report, 11102  
 publications, list, 3510, 11101  
**Pacific Ocean:**  
 central and northeastern, bathyal poly-  
 noids, 6960  
 central and western, tide tables, 14875  
 danger areas, DAPAC, 11641  
 eastern tropical, biological oceanography, 8038  
 North, zoarcid fish, new genus and species, 11606  
 northeast—  
 atlas of July oceanographic conditions, 8041  
 pelagic amphipod *Cyphocaris challengei* (Gammaridea: Lysianassidae), variation and distribution, 6967  
 northeastern part off U.S. coast, agreement with USSR, 11858  
 notice to mariners, 3641  
 portunoid crabs, Smithsonian collections, 8540  
 radio navigational aids, change, 7006, 11647, 17075  
 radio weather aids, change, 2772, 8573, 11648, 17076  
 Soviet oceanographic ship conducts marine research, 14240  
 tunicata specimens of National Museum, 9950  
 western, lights and fog signals, list, 5332, 9973, 14579  
**Pacific slope basins, see Pacific States.**  
**Pacific Southwest Forest and Range Experiment Station, publications, list, 16650**  
**Pacific States:**  
 home fruit garden, 5635  
 Pacific slope basins—  
 California floods, magnitude and frequency—  
 coastal basins south of Klamath River basin and Central Valley drainage from west, 11188  
 Klamath and Smith River basins and Central Valley drainage from east, 14177  
 surface water quality, 11192  
 water pollution and other related fields, inventory of research, 15254  
**Packaged disaster hospitals, see Hospitals.**  
**Packaged Government research and development information for industry, 10438**  
**Packaging:**  
 administration, Army field manual, 15938  
 converted flexible products, current industrial reports, 15992  
 dangerous materials, military aircraft transportation, Air Force manual, change, 13255  
 fair packaging and labeling act of 1966—  
 law, 12157  
 remarks, 4426, 5958, 5960, 12130  
 Federal item identification guides for supply cataloging, supplements, 3287  
 film-wrapped and naked-packed lettuce, market quality, 10152  
 industry report, 3147  
 materials, Federal test method standard 16605

**Packaging—Continued**  
 meat and poultry in retail food stores, systems and equipment, 7276  
 prepackaging pears at shipping point, 1703  
 procedures for parts and equipment, military standard, 16468  
 requirements code, military standard, 3559, 6151  
 rhubarb, storage and shelf life, 5645  
 steel products, recommendations of trade, amdt., 6920  
 see also Packing.  
 Packed with ideas for outdoor fun, 11711  
**Packers:**  
 packers and stockyards—  
 act of 1921, amend, hearings, 13691  
 resumé, 3672, 13042  
 see also Packing industry.  
**Packers and Stockyards Administration, P&SA series, 17103**  
**Packing:**  
 converted flexible packaging products, current industrial reports, 3169  
 supplies and equipment, AMC pamphlet, 4192  
 supplies, Federal item identification guides for supply cataloging, 3287  
 see also names of articles packed.  
**Packing industry:**  
 feeding of livestock by certain packers, prohibit, hearings, 2037  
 packers and stockyards act—  
 as it applies to auction markets, 15870  
 assists to recover losses in livestock claims, 1712, 15869  
 recordkeeping for livestock dealers, 44  
 what it is, how it operates, 15866  
 packers and stockyards resumé, 3672, 13042  
**Packing materials, Federal test method standard, 16605**  
**Packinghouses:**  
 bulk handling spring crop potatoes from harvester to packing line, methods and costs, 35  
 economic aspects of unhairing hides, 11034  
 peach, layout guidelines, 7247  
**Padding:**  
 automotive seat backs, Federal standard, 6329  
 evaluation of various materials for crash protection, 5803  
 Padgett, G. V., oceanographic and hydrographic systems for training, 11670  
 Padovano, Frank A., Greek canned deciduous fruit industry, 17792  
 Padron, Menelio S. D., relief, 12337, 16197  
 Paeng, Hye Suk, relief, 9225, 13506, 13603  
 Paeng, Mi Kung, relief, 9225, 13506, 13603  
 Pagan, Sixto M., relief, 9241  
 Page, Chester H., mathematics and mathematical physics, journal of research, 3459  
 3459  
 Page, Louise, food and your weight, 14744  
 Page, R. W., data for wells in Madera area, San Joaquin Valley, Calif., 12605  
 Page, William A., thermal radiation studies of ablating bodies in ballistic range, 5234  
 PAH, see Para-aminohippuric acid.  
 Pahrum Valley, hydrology of valley-fill and carbonate-rock reservoirs, 14178  
 PALGH, see Pan American Institute of Geography and History.  
 Pails, steel shipping, current industrial reports, 3169  
**Pain:**  
 accurate depth measurements provided by modified algometer, 6809  
 red is color of hurting, planning for children in hospital, 11758  
**Palne, Lee A.:**  
 accidents caused by hazardous trees on California forest recreation sites, 11125  
 butt rot defect and potential hazard in lodgepole pine on selected California recreational areas, 1093



# INDEX 1967

## Paint:

- burning characteristics, fire-retardant undercoat influence on combustible topcoat, 13036
- current industrial reports, 3169, 10357
- Defense Dept. stocks, transfer to GSA, OAO review, 9546
- Federal item identification guides for supply cataloging, supplements, 3290
- manual, new construction and maintenance, 13979
- see also* Pigments—Primers (paint).
- Paint shops, safety engineering in painting and varnishing shops, USSR book excerpts, 15363
- Paintability of 2 Hawaii-grown woods, 4843
- Painting:
  - administrative wheeled vehicles, military standard, 4678
  - Federal facilities in Washington area, irregularities in performance, hearing, 15033
  - outside wood surfaces, wood finishing, 1088
- Paintings:
  - Alice Pike Barney memorial lending collection, 2747
  - Bingham, George C., exhibition catalog, 18084
  - Ileta paintings, artist in pueblo society, letters, etc., 14547
  - transfer in trust for Weimar Museum, agreement with Germany, 7190
  - vested German, transfer to Germany, hearing, 741
- Paints, *see* Paint.

Pair, Claude H., sprinkler irrigation, 5638

## Pajaro River:

- drainage basin, flood control, engineer report—
  - departmental edition, 10958
  - document edition, 10498

## Pakistan:

- accessions list, Library of Congress American Libraries Book Procurement Centers, Karachi and Dacca, 3673
- agricultural commodities, agreements, 1640, 1166, 8744, 15772, 15793
- cotton textiles trade, agreements, 11834, 15797
- education, financing of exchange programs, agreement, 17288
- mineral industry, minerals yearbook chapter, 8361
- U.S. travelers, you can assist U.S. balance of payments, 11887
- West, Punjab region, aquifer tests, analysis, 11187

Palanquin Project, *see* Project Palanquin (plowshare program).

## Paleontology:

- contributions to Ordovician paleontology of Kentucky (series), 16697-698
- contributions to paleontology (series), 8175, 11174, 12614-615, 17827
- lower Paleozoic paleontology and stratigraphy of east-central Alaska (series), 6404
- neutron activation analysis traces copper artifacts to geographical point of origin, 8388
- New Zealand artifacts, from U.S. transit of Venus expedition, 6972
- see also* Fossils.

Paleotectonic investigations of Permian system in United States, 16691

## Paleozoic era:

- lower Paleozoic paleontology and stratigraphy of east-central Alaska (series), 6404
- stratigraphy of Independence quadrangle, Inyo County, Calif., 2364

Pales weevil, *see* Weevils.

## Palladium:

- electrodeposition of thick coatings on refractory metals from aqueous electrolytes, 16861

## Palladium—Continued

- low temperature specific heat of palladium containing interstitial hydrogen, 1548
- silver-palladium braze alloy recovered from masking materials, 6793
- solid palladium-silver alloys, thermodynamic properties, investigation by torsion-effusion technique, 17924
- Pallets (materials handling):
  - Appalachian hardwoods for pallets, laboratory evaluation, 16661
- Palm Springs, Calif.:
  - aircraft accident, 17060
  - dedication of certain streets, etc., on Agua Caliente Indian Reservation and to convey title to—
    - law, 14908
    - reports, 9135, 13828
- Palm Springs Reservation:
  - dedication of certain streets, etc., and convey title to Palm Springs, Calif.—
    - law, 14908
    - reports, 9135, 13828
- Palmer, Raymond W., variable-length constant-velocity traveling magnetic wave plasma accelerator, 18034
- Palmore, Erdman, widows with children under social security, 2869
- Palsy:
  - cerebral—
    - causes, etc., research, 18183
    - developmental approach to casefinding, 10403
- Pamphlets, catalog of copyright entries, 12432, 16451
  - see also* names of departments, etc., issuing pamphlets.
- Pan American Institute of Geography and History:
  - participation of United States, appropriation authorization—
    - law, 374
    - report, 676
- Pan American World Airways, Inc., emergency board report, 4724
- Panama:
  - agriculture and trade, 7887
  - air transport services, agreement, 15782
  - alien amateur radio operators, authorization to operate, agreement, 7188
  - El Real, Darien Province, environmental survey, 8895
  - mineral industry, minerals yearbook chapter, 14331
- Panama Canal:
  - act of 1904, amend, sea-level canal site connecting Atlantic and Pacific Oceans, construction, hearings, 10664
  - appropriations, 1967, law, 403
  - appropriations, 1968—
    - hearings, 10634, 16393
    - report, 13678
  - cash relief act, increase benefits—
    - law, 426
    - report, 934
  - code of Federal regulations, 14034
  - Isthmian Canal, policy questions, Canal Zone, Panama Canal sovereignty, modernization, new canal, compilations of addresses, 520
  - Panama Canal review (periodical), 3674
- Panama Canal Company:
  - annual reports, 148, 13356
  - canal tolls and route studies, status report, hearings, 10664
- Panama Canal Zone, *see* Canal Zone.
- Panama City, Atoms In Action, Nuclear Science Demonstration Center, opening ceremonies (remarks), 8916
- Pandaridae, *see* Copepods.
- Panel boards, optical monitor panel provides flexible test panel configurations, 2634
- Panel on High Speed Ground Transportation, report, 13469
- Panel on Invention and Innovation, report, 5962

Panel on Science and Technology :

8th meeting—  
papers, 12315  
proceedings, 9170

Panelab International, President's E award  
for excellence in exporting (remarks),  
1949

Panels (aircraft) :

comparison of panel flutter results from  
approximate aerodynamic theory with  
results from exact inviscid theory and  
experiment, 1480

Panels and paneling :

compression tests of open-face truss-core  
sandwich panels, 5255

equipment designs, Mylar film eliminates  
silk screening, 1454

flat rectangular panels, flutter analysis  
based on 3-dimensional supersonic un-  
steady potential flow, 6910

illuminated by edge-lighted lens tech-  
nique, 5204

Instrument panels—

instruments and control devices for  
automotive vehicles, Federal stand-  
ard, 6317

light-aircraft, injury potentials, 1820  
vertical-scale, fixed-index, evaluation for  
X-15 airplane, 9918

measuring surface irregularities in panel  
products, 11113

metal panels, open mesh, prevention of  
accumulation of snow and ice, 8879

oscillating panels in low supersonic flow  
with turbulent boundary layer, pressure  
distributions, 6718

potting compound for honeycomb sand-  
wich fasteners, depth control, study,  
6834

steel test panel helps control additives in  
pyrophosphate copper plating, 17969

thermal conductivity of wood-base fiber  
and particle panel materials, 14124

thermostructural, refurbishable for—  
manned lifting entry vehicles, research,  
2605

panel attachment mechanism suitable  
for application, 5160

vibration analysis of cylindrically curved  
panels with simply supported or clamped  
edges, 5263

wood-brick tile, 14133

Pankratz, Louis B. :

thermodynamic data for molybdenum car-  
bide and tantalum carbide, 1410

thermodynamic properties of 3 lithium-  
aluminum silicates, 14355

Pannell, James P., soil survey of Prowers  
County, Colo., 7137

Pants, see Trousers.

Paone, James, drillability studies, statistical  
regression analysis of diamond drilling,  
2584

Papasavvas, Marina B., see Restos, Marina P.

Paper :

chromatography, electronic circuitry used  
to automate, 12913

current industrial reports, 3169, 8944

determining scattering and absorption co-  
efficients by diffuse illumination, 11114

finishing and conversion equipment and  
supplies, U.S. Trade Center, Stockholm,  
Sweden, 4921

Government specification standards, 2066,  
3380, 9178, 15054

Industry—

Government services available for pro-  
motion of products abroad (remarks),  
6465

industrial plant equipment handbook,  
4675

industry report, 3788

laminates, paper base, list of publications,  
8054

Paper—Continued

light sensitive, use for calibrating carbon  
arcs used in testing textiles for color-  
fastness to light, recommended method,  
12981

sheet sizes and hole-punching data for  
filer paper and forms bound in ring,  
post and prong binders, military stand-  
ard, 9374

trade and tariff information, summaries,  
8765

Paper birch, see Birch.

Paperboard :

current industrial reports, 3169, 8944

industry report, 3788

see also Pulpboard.

Papers, see Records.

Paperwork (office practice) :

small store and service trade, recordkeep-  
ing systems, bibliography, 2856

Pappan, Josephine G., or heirs, relief, 610

Pappan, Julie G., or heirs, relief, 610

Pappan, Victore G., or heirs, relief, 610

Papua, mineral industry, minerals yearbook  
chapter, 9759

Para-aminohippuric acid :

PAH stability in frozen plasura utilizing  
improved automated insulin method, 4185  
sodium acetate effect on TmPAH depressed  
by exposure to hydrazine, 4177

Paraboloids :

shells of revolution, differential equations  
of axisymmetric vibration, 17946

spinning paraboloidal tension networks,  
16903

Parachute riggers :

1 & C, aircrew survival equipmentman,  
supplement, 11652

3 & 2, aircrew survival equipmentman,  
supplement, 11652

Parachutes :

airdrop, supplies and equipment—

rigging 210 CFM Davey, trailer-  
mounted air compressor, Army tech-  
nical manual, 113

rigging typical supply loads, Army  
technical manual, 112

designed for controllable gliding flight,  
wind-tunnel tests, 11512

opening, scale factors, 16984

Paradoxes in labor-management relations,  
18088

Paraffins, distillable, identification from coal  
tar, 12795

Paragliders, see Gliders (aircraft).

Paraguay :

agricultural commodities, agreement, 1634

background notes, 1618

foreign trade regulations, 4446

investment guarantees, agreement, 7187

mineral industry, minerals yearbook chap-  
ter, 11361

Peace Corps volunteers, agreement, 7178

special study mission, report, 10568

Parahydrogen, see Hydrogen.

Parajon, Roberto E., and wife, relief, 823,  
9209

Parallax, separations, wedge measures on  
large-scale 70-mm. aerial photographs,  
16659

Parallel-T networks, see Networks.

Paralyzed Veterans of America :

incorporate, 16227

legislative program, hearings, 9172

Paramagnetic resonance, see Magnetic reso-  
nance.

Paramagnetism, see Magnetism.

Parameters :

and limitations of explosive welding, study  
to establish process, 17999

calculating parameters of long-wave and  
ultra-long-wave antennas, USSR study,  
15385

choice of influence functions using analog  
computer, USSR study, 1181

design, and cost of heat exchangers, evalu-  
ation of computer usage, 14324

- Parameters—Continued  
 fashionable materials systems and nuclear safety, USSR book excerpts, 15408  
 for predicting maximum surface temperature of wood in exterior exposures, 1096  
 helium-neon laser discharge parameter study, 17086  
 hydraulic, effect on analysis of chugging, 11491  
 jet streams and forecasting instructions in Kazakbstan, USSR, 4994  
 kinetics, of 6 ablation polymers, determination by thermogravimetric analysis, 9896  
 lumped-parameter systems, method of relating modal damping to local dampers, 5228  
 mercury droplet, including effects of gravity, photographic study, 1509  
 normal human serum, for simulated altitude and aerospace flights, 7341-42  
 parametric studies—  
   advanced multistage axial-flow compressors, 14119  
   cost of multistage flash process, 15329  
   low-density charring ablator, 2713  
   one mgd brackish water reverse osmosis plant (spiral module concept), 9590  
   serum of normal humans, parameters for simulated altitude and aerospace flights, 8868  
   thermogalvanic couples, USSR study, 1241  
   tracking system, human performance measured with version of crossover model, 17944  
   ultrasonic propagation measurements, systematic errors, iterative reflection-interferometry method evaluated, 9983  
 Parametric up-converter increases flexibility of maser, 9859  
 Parapsychology:  
   psychotronics, Trojan horse of irrationality?, USSR study, 11259  
   report, USSR, 9659  
 Parasites:  
   copepod crustaceans on teleost fishes of Hawaiian Islands, 11603  
   genus *Gloioptotes* and new species, host specificity and intraspecific variation, 11607  
   *Nearctic*, of genus *Rhyacionia*, key, with species annotations, 16649  
   protozoa, subject catalogue, 15  
 Parastroke pollex, *see* Crustaceans.  
 Parawings, *see* Wings (aircraft).  
 Parcel post, agreement and regulations of execution with Ethiopia, 17239  
 Parenteral solutions, *see* Solutions.  
 Parents:  
   deceased veterans, liberalize payments, law, 443  
   divorced or separated, income tax support test in case of children—  
     law, 16134  
     reports, 2022, 2099, 7693, 15091  
   helping parents teach young children, note to agents, 4763  
   parents and babies, note to agents, 4764  
   parents and teenagers, note to agents, 4765  
   parents of Peace Corps volunteers, special message, 5383  
   points for participation in Head Start child development programs, 10912  
   *see also* Families.  
 Paris, France:  
   Alr Show—  
     news fillers, 8225  
     newsletter, 8226  
 Parity, *see* Prices.  
 Park, Jeanne S., service, USDA's report to consumers, 3873  
 Park, Stephen K.: equilibrium thermodynamic properties of high-temperature nitrogen, alkali-metal vapor mixture, 16974  
 Park County, Wyo., Adam Weiss Penk quadrangle, geology, 2360  
 Park Range, atmospheric water resources program, phase 1, 11774  
 Park River and Valley:  
   basin, engineer report—  
     departmental edition, 15225  
     document edition, 15059  
 Parke County, Ind., soil survey report, 13127  
 Parker, Evelyn E., cancer chemotherapy reports, 3076  
 Parker, James F., jr., prototype specification for preparation of military flight manuals, 2784  
 Parker, John G., rare-earth minerals and metals, 5123  
 Parker, Lee W., theory of electrostatic planar and spherical probes, 6722  
 Parker, Raymond L., composition of earth's crust, 12606  
 Parker, Richard J., bearing torque and fatigue life studies with several lubricants, 11509  
 Parker, Roy A., relief, 12354, 13618, 16123  
 Parker, W. Russell, family housing for migrant agricultural workers, 11924  
 Parker, William B., soil survey, Randolph County, Ala., 18215  
 Parkevich, Valentina S., relief, 13773, 16203  
 Parkfield, Calif.:  
   earthquake, June 27, 1966, seismological and engineering report, 1934  
   earthquakes of June-Aug. 1966, surface geologic effects, etc., 9574  
 Parkhurst, Raymond T., commercial broiler production, 5623  
 Parking Advisory Council, D.C., establish, report, 13802  
 Parking Board, D.C., establish, report, 13802  
 Parking of vehicles:  
   facilities, establishment in D.C., report, 13802  
   House side of Capitol, create select committee to regulate, report, 12274  
 Parkinson, Fred L., evaluation of high energy rate forged gears with integral teeth, 8898  
 Parkinsonism, Parkinson's disease, progress in research, 18181  
 Parkinson's disease, *see* Parkinsonism.  
 Parkman, Francis, 3-cent regular postage stamp (poster), 15644  
 Parks, Greenspan grants to provide more space, general information, 5672  
   *see also* Education parks—National parks.  
 Parolees:  
   reentry of offender into community, \$791 under supervision of Federal probation system, 15821  
 Parotid fluid, *see* Saliva.  
 Parr, S. C., aerial radiological measuring survey of area, 1781  
 Parra, Juan F. A. Lamas y, *see* Lamas, Juan F. A.  
 Parrish, Paul H., soil survey of Columbia County, Pa., 11804  
 Parsley, production, 4110  
 Parsnips, growing, information, 5643  
 Participation sales act, *see* Credit.  
 Particle board, *see* Pulpboard.  
 Particles:  
   absorptive properties of small particles, 5182  
   atmospheric, improved analyzer, 15529  
   charged, activation analysis, 1793  
   dispersed fuel particles in beryllium oxide matrix, status of development, 7421  
   experiments to investigate particulate materials in reduced gravity fields, 18000  
   high speed, penetration mechanics, multi-variable analysis, 6708  
   hydrodynamic characteristics, forces on sphere moving steadily along circular path in viscous fluid, 10258  
   iron, at meteoric velocities, ionization probability, 11406

Particles—Continued

measurement of natural particulate fall-out onto high polar ice sheets, Antarctic and Greenland cores, 17374  
 photographic method measures size and velocity in fluid stream, 6826  
 size—  
     cleanroom air sampler counts, categorizes, and records, 14409  
     statistical analysis, 10017  
 see also Alpha particles.  
 Partnership for health, 13086, 15702, 17156  
 Partnership for planning, 7080  
 Partnerships, income tax returns, statistics, 6461  
 Parts, computerized parts list system coordinates engineering releases, parts control, and manufacturing planning, 17929  
 Pasayten Wilderness:  
     designate—  
         hearings, 15163  
         report, 17631  
 Pascagoula River and Valley:  
     ground water resources of basin, Mississippi and Alabama, 11190  
     Tallahala Reservoir, engineer report—  
         departmental edition, 13983  
         document edition, 13557  
 Paschell, William, sheltered workshops, pathway to regular employment, 6593  
 Pase, C. P., helicopter-applied herbicides control shrub live oak and birchleaf mountain mahogany, 14111  
 Passaglia, Ello, standard light-sensitive paper for calibrating carbon arcs used in testing textiles for colorfastness to light, 12981  
 Passaic, N.J., area wage survey, 15438  
 Passenger traffic, U.S. and foreign countries, 3822, 4910, 12633  
 Passenger trains, see Railroads.  
 Passengers:  
     transportation survey, 1963 census of transportation, 10343  
     travel between U.S. and foreign countries, 3822, 4910, 12633  
 Passports:  
     diplomatic courier visas, amending agreement with Rumania, 15789  
     information for applicants, 7148  
     summary of statistics, 3920  
     United States, fees charged by foreign countries for visa, list, 7145  
     visas, waiver of nonimmigrant fees, agreement with Japan, 2919  
     you and your passport, application requirements, care, etc., 10096, 18226  
 Paste soap, see Soap.  
 Pasteurization:  
     milk, facts, 14746  
     radiation—  
         Gulf shellfish, 13341  
         Pacific crab and flounder, 13348  
         seafoods, effect of irradiation on microbial flora surviving, 1800  
 Pastry, baking, Army technical manual, 1770  
 Pasture crops, see Forage plants.  
 Pasture lands:  
     cattle in woods or woods in pasture, 14093  
     Kansas and Oklahoma, bluestem and Osage pasture report, 14692  
     trefoil production for pasture and hay, 14741  
 Patagonia Union High School District, Ariz., convey land to, hearings, 16303  
 Patch, R. W., approximation for radiant energy transport in nongray, nonscattering gases, 11544  
 Patent advisers, examination announcements, 205, 17453  
 Patent examiners:  
     examination announcements, 16075, 17461  
     manual of procedure, 2786-88, 3538, 5371, 7034-35, 8608-9, 10022-23, 11688, 15642

Patent Office:

activities (address), 5372  
 administration, investigation, authorization, report, 4604  
 annual report, 7032  
 appeals in patent and trademark cases, amend U.S. Code, report, 877  
 changes in, and patent procedures and their significance for design engineer (address), 10020  
 classification bulletins, 2785, 5368  
 classification definition series, 5369, 8604-5, 11684, 13043-46, 17104-108, 18117-134  
 decisions, 1966—  
     departmental edition, 8606  
     document edition, 7592A  
 laws, investigation, report of subcommittee work, 9285, 13789  
 official gazette, 3650  
 patent reform act of 1967, message from the President, 6001  
 press releases, 3750  
 progress and program plans (address), 2789, 14601  
 trademarks, index, 10021  
 Patent System, President's Commission on, see President's Commission on Patent System.  
 Patents:  
     answers to questions frequently asked about patents, 8610  
     appeals cases adjudged, 12437  
     appeals cases, amend U.S. Code, report, 877  
     changes in Patent Office and patent procedures for design engineer (address), 10020  
     classification, 3650  
     classification manual, 3536  
     replacement pages, 7033, 8607, 14600  
     code of Federal regulations, 9477  
     current legislation, President's Commission, and other developments in our patent system (address), 11685  
     decisions—  
         weekly, 3650  
         yearly, 1966—  
             departmental edition, 8606  
             document edition, 7592A  
     Eastern Utilization Research and Development Division, list, 7254, 15831  
     examining procedure manual, 2786-88, 3538, 5371, 7034-35, 8608-9, 10022-23, 11688, 15642  
     Government policy—  
         annual report, 2240  
         hearings, 2127  
     in official gazette, 3650  
     index 1966—  
         list of patentees, 11686  
         subjects of invention, 11687  
     international patent cooperation (addresses), 5370, 5372  
     international patent structure (address), 13047  
     law, revision, subcommittee work, reports, 9285, 13789  
     laws, investigation, authorization, report, 4604  
     National Aeronautics and Space Administration, policies, evaluation, 6043  
     new, correlation function measurement and infralow frequency, USSR studies, 9647  
     Northern Utilization Research and Development Division, list, 7253  
     patent cooperation treaty, terms, effects (address), 14605  
     patent practices and other measures, USSR agricultural academy discussion, 1207

# INDEX 1967

- Patents—Continued  
 patent reform act—  
 international and national benefits (remarks), 11689  
 international aspects of patent regulations (address), 14603  
 message from the President, 6001  
 patent reform bill—  
 and patent cooperation treaty needed (address), 16095  
 means progress (remarks), 13048  
 proposed changes in law (address), 16091  
 publications, price list, 5418  
 Southern Utilization Research and Development Division, semiannual list, 17, 8812  
 Soviet engineering, 9628, 9648  
 waiver petitions, findings of fact, etc., of NASA Inventions and Contributions Board, 2731, 3684, 11577  
 Western Utilization Research and Development Division, semiannual list, 16, 11925  
 Paterson, N.J., area wage survey, 15438  
 Pathfinders from the stars, new scientific documentary film, announcement, 16085  
 Pathochemistry of hemoglobins, 14215  
 Pathogenesis:  
 cystic lymphadenopathy of rats due to Rous sarcoma virus, USSR study, 6554  
 infectious process, USSR studies, 6573  
 radio-resistance, virulence and culture characteristics, effect of repeated treatment with gamma rays, 12018  
 Pathologic Anatomy Branch, National Cancer Institute, histopathology laboratory procedures, 15689  
 Pathological effects of thyroid irradiation, 11029  
 Pathologists, forest and forest products, examination announcement, amendment, 8985  
 Pathology:  
 dwarf mistletoe parasitizing true firs in California, 5685  
 laboratory profile of 283 healthy male adults, 7347  
 molecular bases, USSR study, 11267  
 Patients:  
 aeromedical evacuation, patients' views of patient care, 17350  
 Clinical Center, NIH—  
 admission procedures, 13069  
 normal volunteer patient program, handbook, 7067  
 normal volunteer, people with a purpose, 7081  
 referral procedures, 10044  
 community mental health center—  
 inpatient services, 11727  
 outpatient services, 11728  
 discharged from Public Health Service hospitals, diagnostic and demographic data, statistical summary, 8629  
 in mental institutions, 1587, 5454-55, 11749, 17157  
 mental hospitals, State and county patient movement and administrative data, 15697  
 neurodermatitis, treating with electro-sleep and hypnosis, USSR excerpt, 17874  
 personal care in homemaker services, report of conference, 5460  
 Patman, Wright, portrait unveiling, proceedings, 4465  
 Patrick V. McNamara Federal Office Building, Detroit, Mich., name, reports, 670, 886, 10727, 17577  
 Pattern recognition, system identification and pattern recognition, 9810  
 Patterns:  
 alterations, guide for leaders in clothing programs, 15856  
 helipad standard marking, development study, 17734  
 Patterns—Continued  
 hide trim pattern for domestic cattlehides, standard of trade, 5283, 8517  
 progress in aging, case study (series), 4082  
 signal patterning, effects upon performance and responses, 8585  
 Patterns of living and housing of middle-aged and older people, research conference, proceedings, 14634  
 Patterson, James L., Missouri River basin floods, 1129  
 Patterson, Sam H., bauxite reserves and potential aluminum resources of the world, 8154  
 Patterson, Viola W., FAA air traffic activity, 16550  
 Patterson, Eagle, Greenough & Day, relief, 7662  
 Paul Kelly Flying Service, Inc., accident, 17060  
 Paul, Roger A., trace elements in common rock types and their relative importance in neutron-induced radioactivity calculations, 1799  
 Pauli, D. C., Project Sealab report, experimental 45-day undersea saturation dive at 205 feet, 11669  
 Paulk, John, solar array regulators of Explorer satellites XII, etc., and Ariel 1, 12927  
 Paulson, Helen M., performance of Farnsworth Lantern at Submarine Medical Research Laboratory, etc., 16845  
 Paulus, Panagiotis, relief, 16201  
 Pavements:  
 airfield and heliport—  
 evaluation concepts, technical manual, 7392  
 flexible pavement, evaluation, technical manual, 4216  
 rigid pavement, evaluation, technical manual, 7393  
 airfields—  
 design, general provisions, technical manual, 4215  
 evaluation concepts, technical manual, 10275  
 rigid pavement, evaluation, technical manual, 5744  
 airport paving, 12486  
 concrete, emergency construction, standard practice, Army technical manual, 1769  
 evaluation for frost conditions, technical manual, 5741, 5743, 7394  
 flexible design for roads, streets, walks, and open storage areas, emergency construction, Army technical manual, 10277  
 portland cement concrete, Dynaflect for non-destructive testing, evaluation, 16524  
 Paving, see Pavements.  
 Pawlick, Eugene V.:  
 dynamic characteristics of electron-bombardment ion thruster, 18033  
 electron bombardment ion thruster, accelerator grid durability tests, 14462  
 Pawson, David L., psolid holothurian genus *Lissothuria*, 8550  
 Pawtucket, R.I.:  
 area wage survey, 14290  
 relief, report, 9082  
 Paxton, P. Price, public library program amendments of 1966, 1135  
 Pay, see Pay, allowances, etc.—Salaries—Wages.  
 Pay, allowances, etc.:  
 alman jobs, merited grade versus merited pay rankings, 7339  
 Armed Forces—  
 allotments to savings for persons missing in action, etc., reports, 16266, 17626

- Pay, allowances—Continued  
 Armed Forces—Continued  
 increase basic pay, message from the President, 9069  
 combat pay, exclusion for commissioned officers in combat zones, increase, law, 452  
 erroneous payments to military personnel for storage of household goods—law, 486  
 report, 4589  
 members of armed services, claims arising from correction of records, provide statute of limitations on payments, report, 2016  
 per diem, to Coast Guard members assigned to Reserve Training Center, Yorktown, Va., refunds, payment to estate—law, 441  
 report, 927  
 uniformed services—  
 increase basic pay, hearings, 17592  
 members, travel, transportation, and education allowances for dependents' schooling—  
 hearings, 10636  
 reports, 10569, 12245  
 United States Code, title 37, amend—law, 17537  
 reports, 7706, 14942, 15089  
 veterans, education allowance increase—  
 hearings, 7753, 10859  
 law, 16133  
 report, 10792  
*see also* Travel.
- Payments:  
 home mortgage payments, FHA guidelines, 6428  
 how to avoid delays in payment, guide for contractors, 17693  
 medical insurance claims under medicare, methods, 7127  
 Payne-Gaposchkin, Cecilia, variable stars in Small Magellanic Cloud, 2859  
 Payroll deductions, for Federal employees, report, 16385  
 Payrolls:  
 compensation expenditures and payroll hours—  
 motor passenger transportation industries, 17893  
 pipeline industry, 11310  
 PCMR, *see* President's Committee on Mental Retardation.  
 Pea aphids, alfalfa, how to control, 7274  
 Peabody, Endicott, nomination, hearing, 9305  
 Peace:  
 food for peace act of 1966, law, 512  
 in search of peace, basic goals of United States foreign policy, motion picture announcement, 7149  
 nation building and peace building (address), 14209  
 organizing the peace (address), 2882  
 search for peace—  
 5-cent commemorative postage stamp (poster), 11694  
 in Viet-Nam, 8714, 14672  
 southeast Asia, resolution to promote maintenance of international peace and security, hearing, 954  
 United Nations peacekeeping dilemma, 10835  
 war or peace in Middle East, study mission report, 10837  
 water for peace, international conference, organize and hold in U.S., 1967—law, 503  
 reports, 700, 2092
- Peace Corps:  
 act, amend—  
 hearings, 10833, 16326  
 reports, 634, 10757
- Peace Corps—Continued  
 advance training, program for college juniors, 5373  
 annual report, 7036  
 appropriations, 1967, law, 405  
 appropriations, 1968—  
 budget amendments, 12203  
 hearings, 15014  
 biographic register, 14670  
 community development, by people, for people, 5375  
 fact book, 5382  
 field staff, Foreign Service list, 3349  
 graduate students, 5376  
 health workers, 5377  
 language, breaking sound barrier, 5378  
 liberal arts graduate, answer to what can I do in Peace Corps, 5374  
 married couples in Peace Corps, two's company, 5379  
 math & science teachers, 5380  
 older volunteers, 5381  
 parents of Peace Corps volunteers, special message, 5383  
 Peace Corps volunteer (periodical), 3676  
 press releases, 3751  
 program directory, 7037  
 quarterly statistical summary, 3802  
 sports and recreation, 5384  
 teaching, from rote to reason, 5385  
 volunteers, agreement with—  
 Antigua, 13146  
 Central African Republic, 7186  
 Chad, 2025  
 Dahomey, 17237  
 Dominica, 11850  
 Gambia, 7193  
 Guyana, 15787  
 Korea, 2928  
 Mauritania, 7177  
 Paraguay, 7178  
 St. Christopher, Nevis, and Anguilla, 11851  
 St. Vincent, 11853  
 Peaceful engagement with the East, address, 234  
 Peach County, Ga., soil survey report, 14656  
 Peaches:  
 dried, U.S. standards for grades, 13895  
 packinghouses, layout guidelines, 7247  
 phony disease, control, 5641  
 production, use, value, 1965-66, by States, 14695  
 Peanut butter, good choice for thrifty family, food value, use, recipes, 9345  
 Peanuts:  
 acreage allotments, transfer—  
 hearing, 13692  
 report, 14948  
 farmers' stock, cost of storing and handling in commercial facilities, 10923  
 market news—  
 price summary, 16443  
 weekly report, 3677  
 outlook for 1966-67 (talk), 4705  
 stocks and processing, 3678, 18235  
 Pearl, Robert B., paper, Apr. 25-May 2, 1966, 5885  
 Pearl River and Valley:  
 improve conditions, engineer report—  
 departmental edition, 2216  
 document edition, 1999  
 Pears:  
 dried, U.S. standards for grades, 13896  
 marketing orders, amend law, hearing, 13693  
 prepackaging at shipping point, 1703  
 production, use, value, 1965-66, by States, 14695  
 Pearson, Elmer G., water resources summary for southern California, 1127, 12616  
 Pearson, Gregory L., water supply outlook and Federal-State-private cooperative snow surveys for Utah, 4050



# INDEX 1967

- Pearson, Henry A., relationship between timber and cattle production on Ponderosa pine range, Wild Bill Range, 16652
- Pearson, John E., natural environment radioactivity from radon 22, 17140
- Pearson, Richard G., performance tasks for operator-skills research, 1821
- Pearson, Robert C., mineral resources of Ventana primitive area, Monterey County, Calif., 12604
- Peas:
- dry split, good choice for thrifty family, food value, use, recipes, 9346
  - fresh, rail shipments study, 5646
  - processed, composition and flavor modification, 11917
- Peasants, mountain peasant life, USSR vignette, 15376
- Pebble-type reactors, *see* Reactors (atomic).
- Pebly, Harry E., Jr., plastics in government, 2155
- Pecan, insects and diseases, control, 1679
- Peck, John H., Upper Ordovician formations in Maysville area, Ky., 2361
- Pectinids, *see* Scallops.
- Pedagogy, *see* Education.
- Pederson, John R.:
- costs and economies of scale in egg-type chick hatcheries, 5649
  - prices and price spreads for eggs, frying chickens, and turkeys in 12 major cities, 11943
- Pederson process, *see* Alumina.
- Pediatrics, *see* Children.
- Peening, *see* Shot peening.
- Peering across the generation gap, 15214
- Pegasus, *see* Satellites.
- Pegmatite, ternary diagrams of quartz-feldspar content of pegmatites in Colorado, 1111
- Pelshan Desert, geographical study, 2434
- Pejovich, Svetozar, role of technical schools in improving skills and earning capacity of rural manpower, 5040
- Pelagic amphipods, *see* Amphipods.
- Pelagic fur seal investigations, 14062
- Pelecypods, Mesozoic, Otapiria Marwick and Luperella Imlay, new genus, in United States, 8175
- Pelican (fishing vessel):
- exploratory collection made in southwestern North Atlantic, 1956-60, correction, 8035
- Pell, Claiborne, study mission to East Berlin, Bulgaria, etc., report, 7809
- Pen barns, *see* Barns.
- Penalties:
- civil rights, interference with, amend U.S. Code—
    - hearings, 17658
    - reports, 12283, 14951
  - collecting, Justice Dept. policies and procedures, GAO review, 11154
  - criminal, for making certain telephone calls in D.C., report, 9128
  - flag desecration—
    - hearings, 10661
    - reports, 12257, 12264
  - riots, inciting—
    - hearings, 15165, 16419
    - reports, 12282, 13664
  - thefts from interstate pipelines—
    - hearing, 2110
    - law, 377
    - report, 892
- Penalver, Rafael A., relief, 9203, 12147, 12215
- Pendarvis, J. M., Jr., relief, 355, 564, 786
- Pendleton, Alfred M., ginning cotton to preserve fiber quality, 16568
- Pendulum sclerometer for surface hardness studies, 11381
- Penetrometers:
- dynamic response to impact loadings of acceleration sensors having various mounting characteristics, 11521
- Penetrometers—Continued
- technique to lunar surveying staff concept, experimental study, 11503
  - use for measurement of dynamic characteristics of soils, 14396
- Penitentiaries:
- national, study—
    - authorization, report, 4607
    - report of findings, 12363
- Penland, Jim A., aerodynamic characteristics of axisymmetric, low-fineness ratio axisymmetric, low-fineness-ratio reentry shapes, 14495
- Penner, Omer, relief, 13570, 17496
- Pennington, Jack E., pilot-controlled docking of Apollo command and service module with lunar module, 2689
- Pennsylvania:
- census of agriculture, 1964, State and county statistics, 7505
  - census of manufactures, 1963, area statistics, 1849
  - census of mineral industries, 1963, area statistics, 4296
  - climatological data, 3096
  - congressional districts, 90th Congress, 1888
  - county business patterns, 4317, 13380, 17428
  - distribution of Government-donated food commodities, GAO report, 6381
  - electric rate book, 14029
  - judgeships, temporary, for eastern district—
    - law, 17544
    - reports, 13834, 16236
  - mineral industry, minerals yearbook chapter, 8362
  - northeastern, Upper Silurian and Lower Devonian stratigraphy, 11167
  - precipitation data, hourly, 3401
  - southeastern Swatara Creek basin, evaluation of hydrologic system, 16703
  - women workers, 5610
- Pennsylvania anthracite, *see* Coal.
- Pennsylvania Avenue Commission, establish, report, 9266
- Pennsylvanian period:
- Big Snowy and Amsden groups and Mississippian-Pennsylvanian boundary in Montana, 15309
  - Upper, Fusulinidae from Graford formation and Winchell limestone, Canyon Group, Brown County, Tex., 12615
- Pennywise teenagers, 15215
- Penobscot County, Maine:
- bedrock geology of Shin Pond and Stacyville quadrangle, 17825
  - Island Falls quadrangle, bedrock, geological-geophysical investigations, 6401
- Pensions:
- Canada, legislation, 5516
  - code of Federal regulations, 11043
  - corporate funds, issues raised by 1965 report of President's Committee (remarks), 10123
  - dependency and indemnity compensation to widows for service-connected deaths of their husbands, amend U.S. Code—
    - law, 367
    - report, 901
  - District of Columbia police and firemen—
    - equalize benefits for totally disabled, report, 9129
    - retired members, eligibility of widows to survivor benefits, provide, report, 10553
  - employee, annuity, etc., income tax, 9596
  - laws, compilation, 1991
  - Lighthouse Service—
    - former employees, increase, report, 12256
    - widows of former employees, increased annuities, report, 12253



## Pensions—Continued

- Lighthouse Service—Continued  
widows of former professional employees, provide annuities, report, 12254
- military disability severance pay, recoupment requirements, modify, report, 14940
- plan, agreement with Canada, 15769
- private plans—  
OASDI beneficiaries, income status, 5514  
self-supporting Federal reinsurance program to protect employees, establish, hearing, 950  
vested benefits, 5501
- public employee retirement systems, benefits and beneficiaries, 11798
- publications, price list, 17135
- retired servicemen's family protection plan, 7375
- veterans—  
cost of living adjustments, hearings, 17592  
enlisted men, credit inactive Reserve service, report, 16270  
income limitations, hearings on miscellaneous bills, 17613  
laws, compilation, 755  
non-service-connected—  
additional wartime benefits, hearings, 7759  
pension and readjustment assistance act of 1967, report, 7712  
service connected death, liberalize payments to parents and children, law, 443  
Vietnam era readjustment assistance act, reports, 4507, 4596
- veterans' pension and readjustment assistance act of 1967—  
law, 16133  
report, 14963
- welfare and pension plans disclosure act—  
administration, 1966, report of Secretary of Labor, 12764  
amend with respect to filing of copies and making affidavits, hearings, 4531  
questions and answers, 14278  
reporting and bonding provisions, administration and enforcement, Labor-Management Services Administration, Labor Dept., GAO review, 8141  
*see also* Civil service pensions.
- Penstocks, welded steel, design, construction, etc., 17178
- Pentaborane, toxic, alterations in tissue amines, modified by hydrazines and propynylamines, studies, 7357
- Pentagon, general information, 4229
- People with a purpose, 7081
- Pepelko, William E.:  
effect of different inert gases and low normoxic environments on oxygen uptake in mice, 76  
energy metabolism of rats born and raised in low-pressure pure oxygen environment, 5709  
long-term effects of oxygen environment on rat colony at 210 mm. Hg absolute, 1740
- Pepoon, Albert M., relief of widow, 13727, 16127, 16168
- Pepper, Leonard, deleterious effects of form lumber on concrete surfaces, 13988
- Peppers, bell, Botrytis rot, 34
- Pepsin, structure, X-ray studies, USSR, 12725
- Peptides, polypeptides and polymers related to collagen, USSR studies, 14270
- Pequonock River and Valley:  
basin, flood control, etc., engineer report—  
departmental edition, 2217  
document edition, 2076
- Perakis, Katherine M., relief, 356, 611, 845
- Percentage of filled fourwing saltbush seeds, 11128

## Perception:

- color-name as function of stimulus intensity and duration, 14320
- depth—  
equidistance judgments in vicinity of binocular illusion, 139  
problems, 138  
stereoscopic angle and its relationship to standard Air Force tests, 70  
effects of sensory deprivation on sensory, perceptual, motor, cognitive, and physiological functions, 8419  
visual, adaptation to visual and nonvisual rearrangement, 5167  
*see also* Color perception—Sight—Tactile perception.
- Perchlorates of nitrogen-containing bases, USSR study, 2458
- Pereira, Alfredo, relief, 12353, 16216, 17517
- Perez, Antonio L. Navarro, *see* Navarro, Antonio L.
- Perez, Armando, relief, 10713, 16191, 17505
- Perez, Felix H., *see* Hurtado Perez, Felix.
- Perez, Lucio A. Travieso y, *see* Travieso y Perez, Lucio A.
- Perez, Ortelio Rodriguez, *see* Rodriguez Perez, Ortelio.
- Perforations in jet engine supersonic inlet increase shock stability, 2655
- Performance (psychology):  
arousal as factor in reminiscence, 9981  
measuring human operator with parameter tracking version of crossover model, 17944  
nonverbal mediation, code transformation task that provides performance measures (COTRAN), 16916
- Performance capabilities of small grating spectrometers, 1549
- Performance ratings, *see* Efficiency ratings.
- Performance, story of the handicapped, 3680
- Performance tests, *see* Flowmeters—Helicopters—Mental tests.
- Performing arts:  
cultural presentations, USA, 1965-66, report, 17226  
Lincoln Center's student program opens new world to teenagers, 12465
- Perfumes, synthetic perfume materials, production and sales, 14703
- Perinatal mortality, *see* Death.
- Periodic solutions, *see* Mathematics.
- Periodicals:  
American agricultural, current, selected list, 14505  
Army Library, selected literature, list, 3867  
catalog of copyright entries, 10880, 16451  
general, currently received in Department of Labor Library, 5034  
Government, price list, 5414, 10039, 15670, 18150  
Labor Statistics Bureau, coverage of labor world, list, 1363  
magazine reprint MR series, 3532  
military, Air University Library index, 3014  
received in NIH library, 11757
- Periodontal disease:  
parotid fluid flow rate and periodontal status in human, 11965  
pyorrhea and other gum diseases, research explores, 2819
- Periodontal status in relation to parotid fluid and serum glucose levels, 4178
- Peripheral nerves, *see* Nerves.
- Peripheral vision displays, 12865
- Perishable agricultural commodities act, *see* Agricultural products.
- Perishables, *see* Agricultural products.
- Perkins, R. B., adhesives, sealants, and gaskets, survey, 5195
- Perlman, Robert, neighborhood service centers, 5595
- Perloff, Stephen H., salaries for selected occupations in services for the blind, 2499

# INDEX 1967

- Permafrost:  
geology of CREEL tunnel, Fairbanks, Alaska, 17378  
perennially frozen ground, 1756
- Permanent Subcommittee on Investigations, *see* Government Operations Committee, Senate.
- Permeability:  
and elutriation methods for determining specific surface of dry chemical fire-extinguishing powders, 11678  
curves of concern to reservoir engineers, 14360  
porous permeable rock for nuclear waste disposal, 9778  
requirements of membranes for use in desalination by reverse osmosis, 15331
- Permian period:  
paleontologic investigations of Permian system in United States, 16691  
Permian tethyan fusuloids from California, 16699  
rock units in Glass Mountains, west Texas, nomenclature, etc., 1113
- Permits, *see* classes of persons to whom, or subjects for which, permits are issued.
- Pernas-Becelro, Daniel, relief, 9197
- Perry, Barbour L.:  
aircraft landing approach paths with rainbow optical landing system, 5346  
altitude rate command system, 9997  
shadow box optical landing system, 11680
- Perry, John J., landing task in jet trainer with restricted fields of view, 11553
- Pershing, John J.:  
memorial in District of Columbia, erection—  
hearing, 740  
law, 490  
trophy, NGB announcement of winners, 14522
- Persian Gulf:  
exploited by British and U.S. petroleum monopolies, 1188  
lights and fog signals, list, 5332, 9973, 14579
- Persimmons, production, use, value, 1965-66, by States, 14695
- Personal and family survival, civil defense adult education course, student manual, 1905
- Personal communication system combines high performance with miniaturization, 11456
- Personal property:  
American Academy in Rome, increase amount—  
law, 16135  
report, 14966  
claims by employees of government of District of Columbia, settlement, report, 10610  
Federal surplus, for health, educational, and civil defense purposes, how to acquire, 12621  
Government owned, in U.S., territories, etc., inventory report, 4540  
surplus, how to buy from Defense Dept., 10897
- Personnel, *see* Social workers.
- Personnel administration, *see* Administrative management.
- Personnel management, *see* Administrative management.
- Personnel management series, 14871
- Personnel Management Training Center, curriculum, administration, etc., 4403
- Personnel manual, *see* Civil service.
- Personnel Research Laboratory, technical reports, 4170-72, 5705, 7339, 11951-952, 13267-268, 15891-893, 17343-345
- Personnel workers, school pupil, certification requirements, 9396
- Persons under supervision of Federal probation system, 15821
- Perspectives in defense management (periodical), 12658
- PERT, *see* Program evaluation and review technique.
- Perturbations:  
modifications in Brouwer's theory of general perturbations in rectangular coordinates, 2703  
perturbation times in alkali-halide systems, 9996  
random, effect on stability of attitude control systems, 11399  
rounding error bounds by perturbation-condition analysis, 16978  
singular perturbation problems with application in viscous flow, asymptotic expansions method, 9885  
small, techniques, solve problem of oscillating cone in supersonic flow, 6849
- Peru:  
air transport services, agreement, 2912  
establishing business in, 231  
loan of vessels, extension, agreement, 2930  
mineral industry, minerals yearbook chapter, 11364
- Pest Control, Federal Committee on, *see* Federal Committee on Pest Control.
- Pesticides:  
agricultural and household, safe use, 4098  
chemistry and technology research, USSR study, 15350  
chlorinated hydrocarbon, identification and measurement in surface waters, 4800  
documentation bulletin, index to literature on pest control (periodical), 3683  
equipment for applying soil pesticides, 14735  
farmers' checklist for pesticide safety, 5668  
farmers' expenditures for, 6171  
health information, 15687  
monitoring journal (periodical), 11008  
organic phosphorus pesticides, commercial names, shipping containers, etc., technical reference, 9734  
organophosphorus, poisoning, detection using automated method, 13351  
pesticides and pesticide-related activities of USDA, 1966, progress report, 7294  
pesticides and related products, production and sales, 8766  
protecting honey bees from, 7275  
registered agricultural chemicals, summary of uses, supplement, 8815  
residues—  
agricultural, monitoring, preliminary report of studies, 4086  
cleanup and confirmation of identity by thin layer chromatography, 13200  
in foods—  
analytical manual, 16640  
report, 15274  
review, 20
- Pests:  
agricultural inspectors outwit foreign pests, 4138  
control, engineered performance standards, handbook, 11623  
forest pest leaflets, 4820-21, 9529, 11104-105, 12567, 15278, 16646-647, 17793-796  
intercepted plant pests, list, 7250  
our struggle against, introduction for American youth, 1716, 7290  
plant—  
control, scientific careers, 13229  
guard against for beautiful America, 1713  
Plant Pest Control Division programs, 11921  
plant pest control inspectors, examination announcement, 211  
watch for new plant pests, 7285, 8840-42  
*see also* insects.
- Pet shops, bibliography, 17195

Petak, L. P., determination of fixed base natural frequencies of shipboard equipments, etc., 11673

Peter, A. C., define propagation characteristics of finite amplitude acoustic pressure wave, 8421

Peters, Frank A., methods for producing alumina from clay, evaluation of lime-soda sinter process, 9779

Peters, James A., lizards of Ecuador, check list and key, 6948

Petersburg National Battlefield, acquire Appomattox Manor for addition to, revision of boundaries, etc., report, 14962

Peterson, C. F., propagation at 5GHz in Europe, comparison of predictions and measurements for various types of paths, 6223

Peterson, Clarence E., instrumentation and automatic control, 1017

Peterson, Esther:  
addresses, etc.—  
Mar. 10, 1967, 6588  
Oct. 10, 1967, 16796  
pennywise teenagers, 15215

Peterson, Eugene G., relief, 324, 819

Peterson, Henry B.:  
engineering observations on MB-5 aircraft fire-fighting and rescue vehicle, 9999  
full-scale fire modeling test studies of light water and protein type foams, 17092

Peterson, J. R., high-performance once-through boiling of potassium in single tubes at saturation temperatures of 1500° to 1750° F., 15504

Peterson, James P., structural efficiency of ring-stiffened corrugated cylinders in axial compression, 14470

Peterson, John J., fatigue behavior of fusion welded wing structure under environment of supersonic transport, 16905

Peterson, Robert L., finite lattice heat capacity effects on spin-lattice relaxation, 14516

Peterson, Roger S.:  
limb rust damage to pine, 4848  
sweetfern blister rust, 4823

Peterson, Roy E., derivation of meteorological body of data covering Northern Hemisphere, 8417

Petitions for patent waiver, findings of fact and recommendations of NASA Inventions and Contributions Board, 2731, 3684, 11577

Petrasek, Donald W., tensile properties of discontinuous-fiber composites, 8498

Petrified Forest National Park, general information, 6981

Petrography, *see* Rocks.

Petroleum:  
accumulation in sedimentary rocks, gravimetric effects, 12608  
aircraft engine oil components, identification, use of thin-layer chromatography (TLC), 11674  
census of mineral industries, 1963, industry statistics—  
crude petroleum and natural gas, 5847  
oil and gas extraction, 7465  
oil and gas field services, 1854  
crude oil, market demand forecast, monthly, 3685  
crude petroleum and products—  
minerals yearbook chapter, 5101  
monthly statement, 3686  
Cut Bankfield, Mont., reservoir oil characteristics, 8376  
densities and porosities of core samples from oil wells, Appalachian fields, 11353  
drilling in sea regions, USSR study, 9640  
exploration, relation of mass properties of sedimentary rocks (series), 12608  
handling equipment and operations, Army technical manual, 5740  
heavy crude oil, resource, reserve and potential production in United States, 17912

Petroleum—Continued  
high boiling fractions, sulfur compound characterization studies, 2583

industry—  
cost competitiveness for energy sources of future (remarks), 6439  
injury experience, 16851  
role of Interior Department (remarks), 8208  
interests, procedures to preclude more than just compensation, Engineers Corps, Army, GAO report, 16670

International Convention for Prevention of Pollution of Sea by Oil, amendments—  
hearings, 745  
text, 5542

international petroleum annual, 9757  
international petroleum quarterly, 3438  
interstate compact to conserve oil and gas—  
consent of Congress to extend—  
hearing, 15042  
report, 10737  
report of Attorney General, 15431

Iran attacks oil consortium, 4972  
leases, reinstatement, etc., by Secretary of Interior, hearings, 13708

Middle East oil crisis, blackmail charged by USSR, 15397

Middle East oil problems, USSR commentary, 2441

monopolies, British and U.S., exploit Persian Gulf, 1188

oil fields, 5-spot waterfloods, computer techniques for predicting 3-phase flow, 15477

oil industry's role in balance of payments voluntary program (remarks), 228

oil pollution act of 1924, amend, hearings, 16435

oil pollution of sea, international control, report, 16234

oil-producing Arab nations, USSR report, 11254

oil recovery predicted by waterflood and gas drive, Bradford Third and Sartwell sands, Sartwell oilfield, McKean County, Pa., 11373

petroleum and related products, specifications and standards, reference list, 10903

plants, investment and operating costs, bibliography, 14328

products—  
military supplies, rigging typical load for high velocity airdrop, 8889  
survey (series), 2568-69, 9762, 12811, 16860

publications, price list, 2803

recovery of additional oil from water-drive reservoirs, 2574

reservoir permeability curves of concern to engineers, 14360

reservoir study of William Kaufman lease Clover-Rush Run oilfield, Roane County, W. Va., 14347

review of expected supply-demand (remarks), 17847

secondary recovery of oil by waterflooding, Mitchell and Berea sands, 14361

statistical reporting improved through standardization of terms, forms, etc. (remarks), 5366

study, improved continuous electrophoresis apparatus, 9764

underground combustion oil-recovery experiments in Venango second sand, Reno pool, Venango County, Pa., 11372

USSR industry, research, 1187

waterflood performance, theoretical and field, Kane oilfield, Pa., 9769, 12814  
*see also* Oil shale—Pipe lines.

Petroleum gases, *see* Gas—Liquefied petroleum gases.

Petroleum products, *see* Petroleum.

- Petroleum refineries, United States and Puerto Rico, mineral industry survey, 15472
- Petroleum Transit Corporation, S.C., motor carrier accident, 16874
- Petrology, see Rocks.
- Pettibone, Marian H.:  
bathyal polynoids from central and north-eastern Pacific, 6960  
type-specimens of polychaeta described by Edith and Cyril Berkeley, 5310
- Pettinger, L. F.:  
forest insect conditions in Pacific Northwest, 8053  
insect outbreaks in Oregon and Washington, 2291
- Petty officers, see Navy.
- Pettyjohn, Wayne A., geohydrology of Souris River Valley in vicinity of Minot, N. Dak., 14184
- Pevtsov, Mikhail V., journey to Kashgariya and Kun-lun, translation, 15426
- PF series, 3690
- Pfister, Robert D., maturity indices for grand fir cones, 9534
- Pharmaceuticals, see Drugs.
- Pharmaceutics (USSR periodical):  
translations, 3687
- Pharmacies:  
medical restraint of trade act, hearings, 17661  
medicines and other pharmaceutical preparations which may be dispensed without physician's prescription, Czechoslovakian list, 12673  
physician ownership, hearings, print additional copies, reports, 916, 2030
- Pharmacists:  
information for people almost 65, 5509, 8688  
Public Health Service careers, 15676  
residencies in Public Health Service hospitals, 13087  
F legend, FDA manual, 6360
- Pharmacologists, examination announcements, 14856, 16077
- Pharmacology, and clinical use of mercaptamines, USSR study, 8242  
see also Ethnopharmacology.
- Pharmacology Section, N.I.M.H., workshop series, 17173
- Pharmacy, Main Pharmacy Administration of Moldavian SSR, proposals for improving labor organization, 15422
- Pharos experiment:  
clamp system for capacitor bank, 11671  
vacuum clamp switch for capacitor bank, 9984
- Phase angle, standard for accurate measurements at audio frequencies, 6924
- Phase detectors, solid state, replaces bulky transformer circuit, 14442
- Phase diagram:  
hafnium-carbon, investigation, 14340  
magnesium-cerium system, 1414
- Phase relations in uranium monocarbide region of system uranium-carbon-oxygen, 12821
- Phase rule and equilibrium, construction of pressure-temperature diagrams for multi-component systems after method of Schreinemakers, geometric approach, 2359
- Phase shift, antenna simulator permits pre-installation system checkout, 2648
- Phase shifters, heterodyne, with inductive delay line pickup, providing stepless phase shift, design, etc., 16977
- Phase studies:  
boiling bubbles in water, activation, growth, and detachment from artificial nucleation sites of known geometry and size, 14491  
nucleation and growth of ice crystals, 6442
- Phase transitions, use to improve thermostatic control of instruments, 9924
- Phenolic asbestos, see Asbestos.
- Phenolic nylon, see Nylon.
- Phenolic resins, see Resins.
- Phenology, pines in Hawaii, 4854
- Phenols:  
chemical safety data sheet, 9683  
transesterification of phosphites and phosphinites, USSR study, 1210
- Phenoxy herbicides:  
acid, determination in water by electron-capture and microcoulometric gas chromatography, 15312  
using effectively, 11929
- Phenylketonuria, bibliography, list, 5906
- Philadelphia, Pa., area wage survey, 9743
- Philately and philatelist, see Postage stamps.
- Philippines:  
agricultural commodities, agreement, 8746  
atomic energy cooperation for civil uses, agreement, 13144  
customs administration, agreement, 10101  
health information for travel, 13078  
investment guaranties, agreement, 5544  
loan of vessels, extension, agreement, 7172  
military bases, agreement, 2916  
relinquishment of certain land areas in Camp John Hay, 11843  
mineral industry, minerals yearbook chapter, 2562  
national service life insurance funds, peso payments—  
law, 372  
report, 905  
petroleum products pipeline, establishment, agreement, 2915  
requirements regarding shipper's export declarations, annex to schedule B, 5897  
sailing directions, change, 7002, 8571, 15629  
telecommunications, radio broadcasting facilities, agreement, 1638  
veterans claims, settlement, agreement, 17234  
Veterans Memorial Hospital, grants-in-aid for medical care, etc., agreement, 14685
- Philipsburg, Mont., geology and ore deposits of district, 15305
- Phillips, Almarin, evidence on concentration in banking markets and interest rates, 14040
- Phillips, Bert, mechanical absorption of acoustic oscillations in simulated rocket combustion chambers, 5264
- Phillips, C. W., testing and rating refrigerated truck bodies, 17335
- Phillips, Charles R., computer program for analysis of gamma-ray spectra by method of least squares, 8630
- Phillips, John J., site index of Delaware-Maryland sweetgum stands in relation to soil characteristics, 4832
- Phillips, John O., geodetic operations in U.S. and in other areas through international cooperation, 14873
- Phillips, V. Estelle, Air University Library index to military periodicals, 3014
- Phillips, W. M., field bindweed and its control, 14749
- Phillips, W. Pelham, subsonic longitudinal aerodynamic characteristics of 40° semi-axep angle conical reentry configuration, 2701
- Philomedidae, see Crustaceans.
- Philosophy:  
Academy of Sciences, USSR, seminars discuss latest concepts in philosophy and science, 1291  
contemporary problems of bionics and their philosophical significance, USSR studies, 1337  
development of sociological, psychological, political, and scientific theories, USSR study, 5024  
philosophical application of cybernetics in military science, USSR study, 1197

- Philosophy—Continued**  
philosophical problems of natural science, subjects for research, USSR list, 16779  
science, development, integrated problem, USSR study, 9674
- Phlipps, Richard L.**, annual growth of suppressed chestnut oak and red maple, basis for hydrologic inference, 11171
- Phoenix, Ariz.**, area wage survey, 11329
- Phoneme-grapheme correspondences** as cues to spelling improvement, 1010
- Phonocardiogram simulator**, 14434
- Phonographs:**  
and record player attachments, current industrial reports, 4323, 12072  
Federal item identification guides for supply cataloging, supplements, 3292
- Phonons**, finite lattice heat capacity effects on spin-lattice relaxation, 14516
- Phonorecords**, Library of Congress catalog, 15459
- Phony peach disease**, control, 5641
- Phoria**, *see* Esophoria.
- Phosphates:**  
deposits, origin, description, etc., 16687  
fertilizer supply, 8819  
industry, western, and its resources, evaluation—  
trends and outlook, 11371  
Wyoming and Utah, 11370
- minerals**, liberation and concentration by attrition grinding and sizing, 14348
- mining**, pneumatic vibrating-blade planer test operation, research progress report, 1411
- reserved interests of U.S. in lands in Florida**, sell to owners of surface thereof, 10526-527, 16165
- superphosphates and other phosphatic fertilizer materials**, current industrial reports, 3169, 5874
- western ores**, batch and continuous circuit beneficiation, 9781
- Phosphites**, and phosphinites, transesterification by monohydric and polyhydric alcohols and phenols, USSR study, 1210
- Phospholipases**, hemolytic and lecithinase activity, clostridium bacteria toxins effect, USSR study, 15388
- Phosphoric acid**, electrolyte, water-vapor electrolysis cell, 12858
- Phosphorus:**  
furnace flue dust, extraction of germanium and gallium, 9789  
metabolism abnormalities in potassium transport mutant of *escherichia coli*, 10235
- mobilization resulting from conditions of inactivity in Macaca irus monkeys**, study, 5707
- organic phosphorus pesticides**, commercial names, shipping containers, etc., technical reference, 9734
- phosphoproteins**, and phospholipids metabolism in experimental atherosclerosis of liver, USSR study, 1275
- stereochemistry of organic compounds**, USSR study, 1209  
*see also* Organophosphorus compounds.
- Photo interpretation**, *see* Photographic interpretation (military science).
- Photoactivation of smooth muscle with ruby laser**, 17362
- Photobiology**, general information, 10311
- Photocells**, *see* Photoelectric cells.
- Photochemistry**, effect of additives on photolysis of poly (methyl methacrylate), 10015
- Photocopying**, equipment, industrial plant equipment handbook, 4672
- Photodegradation of high polymers in solution**, 5358, 10015
- Photodesorption of oxygen from nickel oxide powder**, 16995
- Photodiffusion in nerve and muscle cells under effect of local and irradiating excitation**, USSR study, 14259
- Photodiodes**, *see* Diodes.
- Photoelasticity**, photoelasto-plastic method to study stress distributions in vicinity of simulated crack, 8406
- Photoelectric cells**, photocell shadowing technique improves light source detector, 2674
- Photogrammetry**, aerial, research work on Gulf Stream, 5941
- Photographers**, photographer's mate 3 & 2, Navy training course, 1545
- Photographic apparatus and supplies:**  
consolidated identification list for test evaluation, Federal supply catalog, Defense Dept. section, 3321  
Federal item identification guides for supply cataloging, supplements, 3290  
photographic equipment, industrial plant equipment handbook, 4672
- Photographic film detectors**, film badge services, standards of performance, 10047
- Photographic interpretation (military science):**  
different viewing devices for photo interpretation, relative effectiveness, 10283  
screening and overlapping imagery, influence on speed and accuracy, 14804  
vertical and high oblique, photographs interpretation, 5750
- Photographs:**  
catalog of copyright entries, 968, 2141, 6137, 17682  
coronal, from solar eclipse, 11551  
earth, pictures from Gemini missions, 12880  
lunar orbiter I, mission summary, 8429  
National Library of Medicine collection, 14527  
point coordinates, laser measuring system accurately locates, 5154  
portfolio of science teaching aids, 17158
- Photography:**  
accurately measures rocket engine vibration, 6812  
exposure value (EV) system expanded to include filter factors and transmittance, 6765
- Lunar Orbiter I**, 14394
- Lunar Orbiter II**, photographic mission summary, 17936
- meteors**, automatic-reduction procedure for data, 15510
- PACAF basic bibliography**, 8867
- photo identification guide for land and forest types of Interior Alaska**, 15287
- photographic method measures particle size and velocity in fluid stream**, 6826
- polarized light**, used to identify fatigue zones in metals, 9846
- process produces accurate registry between circuit board prints**, 8476
- public information photographic manual**, 2763
- scientific**, Project Sulky, 4235
- time-lapse**, using aircraft for cloud measurements, 10967
- U.S. commercial exhibitions**, how to photograph, 7566  
*see also* Aerial photography.
- Photointerpretation**, *see* Photographic interpretation (military science).
- Photoionization**, *see* Ionization.
- Photolysis**, *see* Photochemistry.
- Photometry:**  
flame, report, 14518  
ground based photometric surveillance of passive geodetic satellite, 11413  
spectrograms of 3 artificial meteors, 9902  
*see also* Spectrophotometry.
- Photomultipliers**, improved design provides faster response time, 2653
- Photonuclear reactions**, photonuclear data index, supplement, 17034

- Photosynthesis, mineral nutrient requirements of *Chlorella sorokiniana* in continuous pure culture, 14779
- PHS, *see* Public Health Service.
- Phthalic anhydride, *see* Anhydrides.
- Phthalocyanine, uranyl compounds for brain tumor therapy, synthesis, 12842
- Physical chemistry, Academy of Sciences, USSR, report, 6579
- Physical education and training, *plés please*, 1011
- Physical endurance, *see* Physical fitness.
- Physical examinations:
- ILO convention concerning medical examination of young persons for fitness for employment in underground mines, 16160
  - medical advisory boards for driver licensing, 8638
  - multiphasic health screening techniques for detection and prevention of chronic diseases—
    - hearings, 2103
    - print additional copies, report, 2031
    - report, 2104
  - youths for military service, analysis of results, 8900
- Physical fitness:
- demonstration center schools, project, 18145
  - exercise performance of man in oxygen-helium atmosphere, 88
  - for youth, suggested elements of school-centered program, 8617
  - man's physical endurance and its development, USSR study, 12698
  - new youth fitness test norms, 5408
  - physical fitness test, 1561
  - see also* Exercise.
- Physical Fitness, President's Council on, *see* President's Council on Physical Fitness.
- Physical geography:
- Communist China, selected papers of 1963 annual conference of Geography Society, 1319
  - geomorphic effects on earthquake in Martin-Bering Rivera area, Alaska, 2870
  - physiographic and hydraulic studies (series), 17823
  - physiographic history and soils, entrenched stream systems, and gullies, Harrison County, Iowa, 1722
- Physical science aids, physical science technician, examination announcement, 13445
- Physical sciences, *see* Science.
- Physical therapists:
- careers in Public Health Service, 18155
  - educational opportunities, Army Medical Service, 4230
- Physically handicapped, *see* Handicapped.
- Physician Manpower Division, its mission and organization, 18160
- Physicians—Continued
- Physician Manpower Division, its mission and organization, 18160
  - physician speaks on home care, 7082
  - physicians' handbook on medical certification, death, fetal death, birth, 13088
  - Project Head Start and physician, 6165
  - Public Health Service—
    - CORD, commissioned officer residency deferment program, 8626
    - residencies, general information, 8648
    - reporting injuries caused by firearms in D.C., law, 1208
    - reporting physical abuse of children in D.C., law, 479
    - residency training—
      - internal medicine, Veterans Administration Center, Dayton, Ohio, 15818
      - preventive medicine and dental public health, 7090
    - role in aeromedical evacuation, 4173
  - USSR—
    - medical men discuss economics of public health, 2462
    - medical worker's day celebration, 2476
- Physicists, examination announcement, 4388
- Physico-chemical modeling of information and thought processes, 1272
- Physics:
- Belorussian State University's Physics Department program, 17871
  - Bulgaria, status and perspectives, 16758
  - chemical, problems, USSR study, 11257
  - Communist Chinese abstracts, 3123
  - earth, 9920
  - East European abstracts, 3224
  - high and super-high vacuum physics, scientific and technical conference, USSR, 11250
  - high energy, 1966 international conference on instrumentation for, proceedings, 7419
  - high school course, USAFI study guide, 17687
  - Journal of research, National Bureau of Standards, 3458
  - KWIC index to Journal of Health Physics Society, 15694
  - mathematical, journal of research, National Bureau of Standards, 3459
  - research, summaries of projects supported by AEC, 12015
  - scientific tests, standards, publications, price list, 2504
  - solid-state, new developments, Hungary, 16751
  - unitary symmetry in Hadron production reactions, consequences, tests, 5759
  - USSR abstracts, 4031
  - see also* Nuclear physics—Plasma.
- Physiographic and hydraulic studies of rivers (series), 17823
- Physiography, *see* Physical geography.
- Physiological chemistry, *see* Biochemistry.
- Physiological reactions:
- and vigilance performance under fixed and variable signal schedules, 14590
  - space-cabin atmospheres, inert gases, physiological factors, 9823
- Physiologists, examination announcements, 14856, 16077
- Physiology:
- analysis of so-called foresight in chimpanzee, USSR study, 1306
  - aspects of 20 days in full pressure suits, 20 days at 27,000 ft. on 100% oxygen and 34 days of confinement, 6723
  - basis of methods of increasing labor productivity, USSR study, 16766
  - bedrest effects, 2595
  - changes due to bed rest, effects of lower body negative pressure, 7346
  - contributions of scientists in hygiene, physiology, and scientific organization of labor, USSR study, 16767



Physiology—Continued  
effects of—

- sensory deprivation on sensory, perceptual, motor, cognitive, and physiological functions, 8419
- signal patterning upon physiological responses, 8585
- functions in normal persons, effects of change in nutrition pattern, complex investigations, USSR study, 11281
- measurement of total body hemoglobin by bloodless technique, 10232
- measurements during space travel, USSR study, 8243
- mechanisms of physiological action of organophosphorous compounds, USSR studies, 6512
- medical, compartments, pools, and spaces, symposium, 15959
- medico-physiological incidences on pilot for flight patterns typical of VTOL, 11563
- physiologic baseline studies of zoologic specimens, chimpanzee under restraint, 7351
- physiological research, use of electronics, USSR study, 4964
- programmed physiological measurements and experience of its use on Voskhod spaceship, 6533
- protective efficiency of new prototype disposable passenger oxygen mask, 4248
- responses of pilots to severe weather flying, 5804
- work in space, USSR study, 8247
- PI series, Post Office Department, 1559, 2791, 13056, 17119
- Picketing:
  - situs picketing—
  - hearings, 10648
  - report, 10576
- Pickleworms, how to control on cucumbers, squash, etc., 4116
- Picloram, herbicide for killing chaparral species, preliminary rating, 8085
- Picnic shelters, wood construction, building plan, 5661
- Picnics, food selection, preparation, etc., to prevent foodborne illness, no picnic, 11746
- Picture story series, 4138-39, 8846, 11939, 15872, 17331-332
- Pictured Rocks National Lakeshore:
  - establish—
  - law, 387
  - report, 912
- Pictured Rocks National Lakeshore Advisory Commission, establish, law, 387
- Pictures, see Aerial photography.
- Piedmont region:
  - ground water, 9566
  - inner belt, N.C. and S. C., minor elements in alluvial magnetite, 8172
  - prescribed burning improves loblolly pine seedbeds, 12582
- Pleper, C. W., 20-hour follow-on flight test program, XV-9A hot cycle research aircraft, 7410
- Pierce, Clarence R., determination of tungsten resonance absorption integrals by activation, 18012
- Pierce, Margaret H., cases decided in Court of Claims, 970, 2142, 4663-64, 7840, 12436, 16453, 17686
- Pierce, W. F., medical news letter, 3547
- Pierce Mill, Rock Creek Park, general information, 6982
- Piersma, Bernard J.:
  - organic adsorption at electrodes, 10003
  - perturbation times in alkali-halide systems, 9996
- Plerson, Nathaniel H., retail trade, etc., 5591
- Pietri, E. E., analysis of reactor fuel element solutions, 13333

Plezo gages, see Pressure gages.

Piezoelectricity:

- miniature piezoelectric triaxial accelerometers measures cranial accelerations, 2659
- transducers, mechanical and electrical checkout while installed in system, 2658
- Pigeons, wild, and white winged doves, hunting, possession, transportation, importation in Alaska, 1967-68, Federal regulations governing, 14061
- Piggyback traffic characteristics, 8233
- Pigments:
  - light scattering in highly reflecting pigmented coatings, 14392
  - synthetic organic, production and sales, 14704
- Pigs, see Swine.
- Pike River, water pollution, control, etc., hearing, 738
- Pileggi, Joseph, commercial fisheries review, 3110
- Pillé, R. J., project fog drops, 6712
- Pillager bands of Chippewa Indians, see Chippewa Indians.
- Pillars (mine), see Mine pillars.
- Pillowcases, current industrial reports, 4339-40, 12080, 17435
- Pilot guides, see Coast pilots.
- Pilot plants:
  - Quehauna pilot plant 1st generation process operations, 5777
  - study of alkalinized alumina system for SO<sub>2</sub> removal, 12831
- Pilots and pilotage:
  - Great Lakes and St. Lawrence Seaway pilotage services, agreement with Canada, 14689
  - Great Lakes, 1966, statistical report, 12139
  - see also Astronauts—Aviators—Ship pilots.
- Pimentos, canned, U.S. standards for grades, 17681
- Pin connectors, see Connectors (electric).
- Pin oak, see Oak.
- Pinal County, Ariz.:
  - geology of Mammoth quadrangle, 11163
  - population, special census, 10374
  - western, salinity of ground water, 1131
- Pinch, see Plasma.
- Pinchot, Gifford, National Forest, see Gifford Pinchot National Forest.
- Pine:
  - Appalachian loblolly grows well in Arkansas Ozarks, 2320
  - converting pin oak flat to pine, 14121
  - density and height growth in natural slash pine, 15259
  - follage, moisture content, seasonal fluctuation, 2305
  - forcing attacks of western pine beetles to test resistance, 8083
  - hybrids among pond, loblolly, and pitch pines, 14137
  - Jeffrey pine plantation, spread of dwarf mistletoe, trees infected after 22 years, 16658
  - knobcone, damage from freezing spring temperatures, 8117
  - limb rust damage, 4848
  - loblolly—
    - diameter growth and foliar nitrogen in fertilized soil, 8094
    - late planting improves survival, 8119
    - seed dormancy influenced by cone and seed handling procedures and parent tree, 8092
    - stands, periodic growth near Crossett, Ark., 2324
    - thinning from above and below, 8095
  - loblolly and shortleaf—
    - growing in Midsouth, 8827
    - heavy tip moth attacks reduce early growth, 14120



## Pine—Continued

- lodgepole—
  - butt rot defect and potential hazard in recreational areas, 1093
  - effect of partial cutting in overmature stands, 14090
  - Low stand density speeds tree growth, 11117
  - site indexes with corrections for stand density—
    - instructions for field use, 2333
    - methodology, 14145
  - tree, characteristics, influence on 2 x 4 stud yield, 16654
  - yield tables for managed stands in Colorado and Wyoming, 11140
- longleaf—
  - common plants of bluestem range, 2334
  - from several geographic sources, variation in brown-spot infection, 14118
- Monterey, silvical characteristics, 8113
- Norfolk-Island-pine grown in Hawaii, physical and mechanical properties, 8105
- operational summer planting of slash pine, 15285
- phenology and growth habits in Hawaii, 4854
- Piedmont loblolly pine seedbeds, prescribed burning improves, 12542
- pinus contorta X banksiana hybrids, early performance, 9533
- pinus ponderosa, performance of 14-year-old hybrids in western Montana, 8067
- ponderosa—
  - bibliography, 17805
  - broadcast seeding on Challenge Experimental Forest, progress report, 16660
  - causes of natural mortality in old growth stands in western Montana, 4830
  - development of progeny in western Montana, 6365
  - planting sites in Southwest, herbicides for preparing, 14110
  - racial variation at Fort Valley, Ariz., 2315
  - reforestation for brushfield reclamation, 4844
  - seed flight, record, 1089
  - southwestern, cutover, occurrence of stem features affecting quality, 14144
  - stands, thinned and unthinned, herbage-timber relationships, differences, 2316
  - tip moth, description, control, etc., 4820
  - transplants in Nebraska, 10-year growth of 2 sources of large grade, 2312
  - trees in Montana, distribution of bark beetle attacks, 11115
  - vener volume and grade recovery in southwest, 14115
  - weight and cubic-foot relationships for Black Hills saw logs, 6370
  - zone of Colorado, cattle diets on native and seeded ranges, 6369
- ponderosa pine-bunchgrass range in Colorado, cattle grazing effects, 14764
- red and jack pine stands, forest floor fuels, 2303
- red, plantation-grown, predicting specific gravity, 8061
- sand, regeneration, shelterwood method, 9539
- shortleaf—
  - seedling inventory methods on broadcast-seeded areas in Missouri Ozarks, 8072
  - stand volume equations, in Missouri, 14094
- slash—
  - do wet- and dry-site ecotypes exist in slash pine?, 12577
  - fire resistance of 2 seed sources, south Florida, 9540
  - performance of 2 varieties planted in south Florida, 9543

## Pine—Continued

- slash—continued
  - seedling growth in Florida sandhills slowed by loss of topsoil, 14119
  - summer planting shows promise in Florida, 8118
- southern—
  - gluing amonium-salt-treated, with re-aorcinol-resin adhesives, 8063
  - properties, in relation to strength grading of dimension lumber, 2327
  - seed orchards, two new sucking insect pests of seed, 15283
  - vener cores, straight studa as byproduct, 8120
- sugar—
  - artificial ripening of seeds, 4856
  - branches, growth rate and survival probability of blister rust cankers, 14103
- western white—
  - diameter growth following precommercial thinning, 4826
  - market trends, 14089
  - mixed-pollen crosses, economical and reliable estimates of general combining ability for blister rust resistance, 5336
  - thinning and fertilizing increase growth, 6367
  - white, size and germination of seed collected at weekly intervals from 5 trees, 12580
- Pine Barrens:
  - hydrology and ecology, Pine Barrens, New Jersey (series), 6408
  - New Jersey, distribution of roots and rhizomes in different soil types, 6408
- Pine Bluff, Ark., population, special census, 10376
- Pine lands, *see* Timberlands.
- Pine lappet, *see* Lappet moths.
- Pine Mountain, primitive area, Ariz., mineral resources, 11166
- Pinellas County, Fla.:
  - engineer report—
    - departmental edition, 4735
    - document edition, 4477
  - land conveyance to—
    - law, 369
    - report, 900
- Pink bollworm, *see* Bollworms.
- Pins, Federal item identification guide, 17696
- Pinus banksiana, *see* Pine.
- Pinus contorta, *see* Pine.
- Pinus ponderosa, *see* Pine.
- Pinworms, life cycle, spread, etc., 7069
- Pioneer, *see* Spacecraft.
- Pioneer space probes, coding system, 14493
- Plotrowski, Maria A., relief, 780
- Pipe and pipe fittings:
  - bending jacketed piping, technique cuts time and cost, 8453
  - cast iron soil pipe from Poland, determination of injury to U.S. industry, 17252
  - Corrugated metal pipe culverts, structural design, criteria and recommended installation practices, 2843
  - Federal item identification guides for supply cataloging, supplements, 3288
  - irrigation pipe trailer, farm building plan, 1707
  - jacketed cryogenic piping is stress relieved, 15553
  - liquid oxygen ducting cleaned by falling film method, 16947
  - pipe joints reinforced in place with fitted aluminum sleeves, 15541, 17954
  - pipe, metallic, Federal item identification guide, 10893
  - pipe welds, fixture facilitates helium leak testing, 12904
  - piping for ships of Navy, military standard, 2154
  - plain and rifled dredge discharge pipe, comparison tests, 7930

- Pipe and pipe fittings—Continued  
spherical joint delivers loads equally to mating flange, 6823  
tank filler pipes for automotive vehicles, Federal standard, 4795
- Pipe lines:  
forced discontinuous oscillations of fluid, 6912  
interstate natural gas, safety requirements, etc., hearings, 6093  
natural gas—  
maps, 1049, 12509  
safety regulations, hearings, 16403  
sales by producers to interstate pipeline companies, 7973  
statistics for interstate companies, 2247, 17769
- oil—  
transport statistics, 4929  
transportation revenue and traffic, 3975  
penalties for thefts from pipelines—  
hearing, 2110  
law, 377  
report, 892
- petroleum products, establishment, agreement with—  
France, 7169  
Philippines, 2915
- pipeline industry, compensation expenditures and payroll hours, 11310
- teflon sheet permits valve and valves actuator to move as single unit in cryogenic pipe line, 6698
- Pipe threads, *see* Screw threads.
- Pipelines, *see* Pipe lines.
- Piper, Arthur M., potential effects of Project Chariot on local water supplies, northwestern Alaska, 2369
- Piropiasmosis, equine, 1966, report, 1675
- Pisacane, V. L., stabilization system analysis and performance of GEOS-A gravity-gradient satellite (Explorer XXIX), 17940
- Piscataquis County, Maine, geology and petrology of Greenville quadrangle, 16684
- Pistols, registration in District of Columbia, require, hearings, 10644
- Pistons:  
gas-dynamics calculation of installation with light piston, USSR study, 4999  
manufacture, for high-speed engines using sintered aluminum powder, USSR study, 4969
- Pitch:  
harmful, in woodpulp, review of methods for estimating, 11112  
resin fraction from various low-temperature tar pitches, characterization, 6632
- Pitch (aircraft):  
pitch maneuver speed margins for supersonic transport configuration with variable-sweep wing, 17000
- Pitch (motion):  
Gemini configurations, damping and stability in pitch and yaw, errata, 1474  
pitching moments caused by tail of aircraft model, equations for application of wind-tunnel wall corrections, 2715  
stall pitch-up, piloted simulation study of operational aspects, 12967
- Pitch (music), *see* Musical pitch.
- Pitch control motors, launch escape system of Apollo spacecraft program, qualification evaluation, 15560
- Pitch pine, *see* Pine.
- Pitcher, Charles B.:  
gas, characteristics and distribution, and market for gas equipment in Western Europe, 16102  
market for residential heating equipment in Federal Republic of Germany, 5953
- Pitman, Norman J., relief, 331, 601
- Pittard, E. B., comparison tests of plain and rifled dredge discharge pipe, 7930
- Pitta, Donald G., visual illusions and aircraft accidents, 11958
- Pittsburgh, Pa.:  
aeroradioactivity survey and areal geology of area, 1779  
area wage survey, 11317  
flood protection, Turtle Creek, channel improvement, hydraulic model investigation, 7932
- Pividal, Rafael J. Nobo y, *see* Nobo y Pividal, Rafael J.
- Pixley National Wildlife Refuge, general information, 8031
- PKU, *see* Pheuyketonuria.
- PL 480 newsletter, 3507
- Placement, handicapped, summary of inspection findings, 10432
- Plafker, George, geologic effects of Mar. 1964 earthquake and associated seismic sea waves on Kodiak and nearby islands, Alaska, 1121
- Plague, USSR, Operation Ore, from memoirs of L. A. Zil'ber, 6556
- Plains States, *see* Great Plains.
- Plane isotropic buildup factors for bremsstrahlung calculations, 15565
- Plane stress, *see* Strains and stresses.
- Planetariums, elementary-school teaching resource, 5278
- Planetary environment, *see* Environment.
- Planetary gearing, *see* Gearing (planetary).
- Planetary-interplanetary program, Venus and Mars, advanced manned planetary mission programs, nominal natural environment, establish numerical values, 8436
- Planetary topography, *see* Topography.
- Planets:  
atmospheres—  
predictions of shock-layer radiation from molecular band systems, 6890  
structure, from on-board measurements of pressure, etc., 9904  
thermodynamic equilibria, 11426  
Venus and Mars, investigation, 5276  
heat transfer and temperatures distribution of conical porous membrane during planetary entry, 11554  
infrared radiation, outgoing, from planetary atmosphere, theoretical computations, 14457  
ionospheres, investigation, 12847  
modifications in Brouwer's theory of general perturbations in rectangular coordinates, 2703  
parachute opening, earth simulations of planetary deployments, 16984  
radar observation, USSR study, 1242  
Voyager program, voyage to planets (remarks), 8514
- Planing machines, pneumatic vibrating-blade planer, test operation, 1411
- Plankton:  
Antarctic krill, Soviet fishery research, 15345  
control of growth, organotin compounds used, USSR study, 2460  
vertical distribution, pump and reeled hose system for studying, 14065  
*see also* Zooplankton.
- Planning:  
and zoning in Appalachia, suggestions, 7884  
community health planning, role of health and welfare councils, 2832  
farm irrigation systems, 14652  
flood information for flood-plain planning, 9567  
health services, extension of remarks, etc., 7080  
layout and arrangement for safety in industry, instructor outline, 8292  
long-range forecasting and planning, Air Force symposium, 17340  
long-range mine planning, production-scheduling model, etc., 9786  
planning for the later years, 18207  
quantitative methods for management, 11591

Planning (economics), *see* Economic policy—Housing.  
 Planning (Federal), *see* Economic policy.  
 Planning (programming), *see* Programming (planning).  
 Plans, *see* Architecture.  
 Plans for Progress :  
     press releases, 3752  
     program, 11298  
 Plant diseases, *see* Diseases of plants.  
 Plant Pest Control Division, programs, 11921  
 Plant pests, *see* Pests.  
 Planting :  
     late, improves loblolly survival, 8119  
     potatoes and sweet potatoes, dates, by seasons, in principal areas, 13211  
     *see also* Crops—Tree planting.  
 Plants :  
     common, longleaf pine bluestem range, 2334  
     foliage, production and sales, etc., 10108  
     inventory, material received by New Crops Research Branch, 8810, 15828  
     ornamental, marketing and other economic information, bibliography, 7885  
     Pacific Island studies, new and noteworthy flowering plants from Fiji, 12997  
     plant quarantine inspector—  
         examination announcement, 12100  
         plant pest control inspectors, examination announcement, 211  
     plant-protecting agent industry and research, world status, with special reference to Hungarian condition, 16750  
     plant regulatory officials of States, Canada, and Mexico, 5618  
     problems of biological productivity of terrestrial plant communities, work of symposiums, USSR conference, 4968  
     publications, price list, 5417  
     quarantine import requirements—  
         Australia, 8811, 13206, 17302  
         Canada, 15829  
         Fiji, 17303  
         foreign countries, summaries, list, 4087  
         Japan, 5617  
         South Africa, 4089, 14734  
     quarantine notices under plant quarantine act, P.P.C. series, 3667  
     tissue, variations in respiration during gamma radiation, 8511  
     underwater and floating-leaved plants of United States and Canada, field identification guide, 15267  
     vascular—  
         insect associational studies, bibliography, 8804  
         of Intermountain region, checklist, 14125  
     woody plants and related nursery products, bibliography on marketing, 1708  
     *see also* Annuals (plants)—Diseases of plants—*also* names of plants.  
 Plants (Industrial) :  
     dairy plants manufacturing ice cream and ice cream novelties, automation, layouts and operating criteria, 1702  
     defense-oriented industries, shipments, 1965, current industrial reports, 8946, 13394  
     equipment handbooks—  
         air purification equipment, industrial fans, blowers, and vacuum cleaners, 4674  
         automatic data processing systems, 7848  
         chemical analysis and laboratory instruments, 4673  
         chemical and pharmaceutical products manufacturing machinery, 7851  
         industrial boilers, heat exchangers, and steam condensers, 977  
         industrial marking and assembly machines, 7850  
         materials feeders, 6141

Plants (Industrial)—Continued  
     equipment handbooks—continued  
         miscellaneous maintenance and repair shop specialized equipment, 7852  
         photocopying and photographic equipment, 4672  
         pulp and paper industries and size reduction machinery, 4675  
         rubber and plastics working machinery, 7849  
         specialized ammunition and ordnance machinery, 9367  
     expenditures for new plant and new equipment, annual survey of manufactures, 7455  
     expenditures for plant and equipment, 1963 census of manufactures, 4276  
     industrial location as factor in regional economic development, 13936  
     Lugansk locomotive-building plant, book-keeping organization, USSR study, 1293  
     manufacturing establishments, book value of fixed assets and rental payments for buildings and equipment, annual survey of manufactures, 17418  
     poultry and egg, operating under USDA inspection and grading programs, list, 2137, 16446  
     relocation and core city worker, 16711  
     smoked-fish plants, steps to effective sanitation, 9514, 16619  
     storage maintenance of industrial plant equipment, quality assurance program, 13912  
     tours for international visitors to U.S., 11888  
     under USDA continuous inspection, processed fruits and vegetables, etc., list, 16447  
     *see also* types of industrial plants.  
 Plants, fossil, Tertiary, from Cook Inlet region, Alaska, 2365  
 Plasma :  
     acceleration, 3-dimensional, through magnetic fields, etc., 5256  
     accelerators, variable-length constant-velocity traveling magnetic wave, experimental investigation, 18034  
     anisotropic, neutron production by fusion, 5347  
     boundary interactions, 15512  
     cold plasma, plasmatron principles and uses, USSR study, 16748  
     collisionless, time-dependent structure of one-dimensional magnetic compression waves in oblique ambient magnetic field, 11508  
     computer stimulation of plasma and many-body problems, symposium, 16928  
     concept for using laser beams to measure electron density in plasmas, 6807  
     electron temperature from X-ray continuum radiation emitted from high temperature plasmas, 11681  
     high frequency properties, 8510  
     hollow cathode, penetration study, 2612  
     homogeneous, weak turbulence, 8906  
     hot, with cold gas, production of inverse population by mixing, USSR study, 17866  
     hydrogen, superheated, using induction heating of cold plasma and DC plasma enhancement, production, 5166  
     inhomogeneous lossy dielectric slab, input admittance of rectangular waveguide-fed aperture antenna, radiating into, 18028  
     ionized, use to create laser, USSR study, 4998  
     low energy, experiments, 17942  
     low-pressure, radio frequency induction heating, 18035  
     movable rf probe eliminates need for calibration in accelerators, 17973  
     oscillations stimulated by pre-bunched electron beam, 12870

**Plasma—Continued**

- physics—
  - and controlled nuclear fusion research, translated Russian papers, 5756
  - methods of high-speed measurement, 4997
  - numerical experiments, 1791
  - potential and charge distributions, computer programs calculate, 2668
  - reentry, about manned orbital spacecraft, deduction of properties from radio signal attenuation data, 14494
  - sheath, radiation of cylinder, 5176
  - spectroscopic temperature measurements, 2714
  - stability and Bohr-van Leeuwen theorem, 8495
  - tenuous, volume ion production coats, 15577
  - theta-pinch facility, report of Ad Hoc Panel on Scyllac, 13347
  - uniform and nonuniform, ion cyclotron wave generation and electron inertia effects, 12962
  - vacuum clamp switch for Pharos capacitor bank, 9984
  - warm collisional, resonant frequencies of immersed dielectric sphere, 12929
- Plasma (blood), *see* Blood.
- Plasma guns, heat output of accelerator, measuring with fast-acting calorimeter, 12911
- see also* Coaxial plasma gun.
- Plasma jets:
  - electrode, longer operating life, 8385
  - technology, NASA contributions to use in chemical processing, 12867
- Plasma Physica Laboratory, annual report, 7424, 13330
- Plasmotrons, principles and uses, USSR study, 16748
- Plasma, William T., land disturbances from strip-mining in eastern Kentucky, 8077, 17801
- PLASTEC notes, 2155-56, 4680, 12446, 17701
- PLASTEC reports, 981, 2157, 7864, 17702
- Plaster casts, knee, adjustable hinge permits movement, 9829
- Plasterers, examination announcement, 10415
- Plastic sheets, *see* Sheet-plastic.
- Plastic strain, *see* Strains and stresses.
- Plastic surgery, *see* Surgery.
- Plasticity, scientific bases, 1965, USSR research, 2453
- Plasticizers, production and sales, 17256
- Plastics:
  - and related materials—
    - guide to test methods, 17701
    - military applications, 12446
  - borax dispersion in plastic, excellent fire-retardant heat insulator, 8384
  - composites, industrial evaluation of radiation, 5780
  - compositions, classification definitions, 8605
  - copper-acrylic enamel serves as lubricant for cold drawing of refractory metals, 5140
  - directory of knowledgeable Government personnel, 2157
  - discrete-element methods for plastic analysis of structures, 17933
  - encapsulation of electronic parts, review, 7864
  - filament-winding, m-aminobenzyl amine (MARA), syntheses, properties, and uses, 9989
  - glass reinforced fabrication techniques for aircraft structures, 4222
  - glossary of terms, consensus, 4680
  - infrared spectra, related polymeric materials (elastomers), 15836

**Plastics—Continued**

- microvoids in glass-filament-wound structures, measurement, minimization, and correlation with interlaminar shear strength, 11677
- military standardization handbook, 980
- PLASTEC notes, 2155-56, 4680, 12446, 17701
- PLASTEC reports, 981, 2157, 7864, 17702
- plastics in Government, 4 papers presented at 1966 annual conference, Society of Plastics Industry, 2155
- polystyrenesulfonate model membranes, polymer structure and ionic transport, 9592
- reinforced plastic laminates, list of publications, 8054
- shipments of selected products, 1965, current industrial reports, 7480
- technical conference papers, index, bibliography, etc., 981, 17702
- thermoplastic rubberlike material produced at low cost, 2623
- thermosetting strength, thermal and chemical stability improved, 14412
- tubing, protects flexible copper hose, 6755
- U.S. production and sales, preliminary report, 3699
- working machinery, industrial plant equipment handbook, 7849
- see also* names of articles made from plastics.
- Plastics Technical Evaluation Center:
  - PLASTEC notes, 2155-56, 4680, 12446, 17701
  - PLASTEC reports, 981, 2157, 7864, 17702
- Platas-Probias, Dario L., relief, 10711
- Plate glass, *see* Glass.
- Plateris, Alexander A., divorce statistics analysis, United States, 17172
- Plates:
  - circular, bending while confining incompressible liquid, 97
  - cracked specimens, displacement gage for crack-extension measurements, design and use, 1513
  - crackline-loaded edge-crack specimens, stress intensity factors, 8369
  - duality between problems of stretching and bending of plates, 5186
  - edge-stiffened rectangular, subjected to loads and temperature gradients, plane-stress analysis, 16895
  - fabricated from glass filaments and epoxy resins, compressive behavior, 9895
- flat—
  - chilled, experimental and analytical study of transient solidification of flowing warm liquid, 12935
  - with attached protuberances, heat-transfer measurements in turbulent boundary layer, 5232
  - with oblique jet impingement, pressure, fluctuations, 14388
- Fresnel diffraction plates are simple and inexpensive, 16945
- Infinite, nonuniform radial loads applied to boundary of circular hole, 17914
- instrumented parallel plate system, absolute viscosity measured, 8467
- nonlinear problems, incremental procedure for solution, 2727
- rectangular—
  - maximum response to random excitation, 16892
  - vibration with various boundary conditions, effect of edge loadings, errata, 12919
- square, dynamic characteristics by passive analog simulation, 5168
- stresses at tip of longitudinal crack in plate strip, 14498
- thin, flat, circular, effects of uniform and variable loads, equations provide tabular information, 8399

# INDEX 1967

- Plates—Continued  
*see also* names of metals, etc., of which plates are made.
- Platforms:  
 work—  
   supported by self-locking blades, 12906  
   with adjustable, self-locking ladder, 9834
- Plating:  
   complex surfaces plated by thin-film deposition in one operation, 8447  
   evaporant feed device facilitates flash vapor deposition process in vacuum, 16955  
   ion plating on surfaces having various configurations, deposition of thin films, 1510  
   pyrophosphate copper plating, steel test panel helps control additives, 17969  
   thin plastic sheet eliminates need for expensive plating, 6336  
   *see also* Nickel—Silver plating.
- Platinum:  
 electrode—  
   in high-purity closed system, potentiostatic current-potential measurements, 10011  
   interaction of carbon dioxide with hydrogen chemisorbed, errata, 8586  
 electrodeposition of thick coatings on refractory metals from aqueous electrolytes, 16861  
 metals group, sliding friction, 15578  
 metals, mineral industry survey, quarterly, 3689  
 platinum-group metals, mineral industry surveys, annual, preliminary, 5122  
 Plato LAC 12, lunar chart, 10225  
 Platt National Park, general information, 6983  
 Platte River and Valley, water supply outlook and snow surveys, 4045  
 Platystomatidae, *see* Flies.  
 Plays, *see* Drama.
- Pleasanton Plant Materials Center:  
 relocation—  
   hearings, 16303  
   law, 17539  
   reports, 13669, 15128
- Please don't eat the poison ivy, 13959
- Plebuch, Raymond O., water resources of Pulaski and Saline Counties, Ark., 8181
- Plotters:  
   computer routine adds plotting capabilities to existing programs, 2643  
   design, image sensor, simplifies transfer characteristics, 12915  
   digital, automatic, subroutines GEORGE and DRASTC, simplify operation, 15485  
   use in East German air defense system, 2437
- Y-Y, use of oscilloscope, 15539
- Plotting boards and plotting, contour plotting, computer program utilizes FORTRAN IV subroutines, 16958
- Plowshare program (civil, industrial, and scientific uses for nuclear explosives):  
 reports, 1798-99, 4235-37, 5781-82, 5787, 7426, 10312, 10491, 13342, 15962, 17394-398
- Plugs, expansion, replaces weld filler as seal in complex casting, 2632
- Plumbbob Operation, *see* Operation Plumbbob (nuclear effects test).
- Plumbers, safe work guide, 11305
- Plumbers' supplies:  
   plumbing fixtures, current industrial reports, 3170, 17433  
   porcelain enameled formed steel plumbing fixtures, standard of trade, 6918, 17037
- Plumbing, equipment, Federal item identification guides for supply cataloging, supplements, 3288
- Plumbing fixtures, *see* Plumbers' supplies.
- Plumes, *see* Jet plumes.
- Plums, production, use, value, 1963-66, by States, 14695
- Plutonium:  
   ages of plutonium-beryllium neutrons in tungsten-water media, 1502  
   concentration and isotopic composition in reactor fuel element solutions, 13333  
   metallography, principles, 10298  
   radiochemistry, 126  
   used as nuclear fuel, determining price, USSR study, 15373  
 Plutonium isotopes, plutonium-238 in reactor fuel element solutions, spectrometric determination, 13333  
 Plymouth County, Mass., Taunton quadrangle, geology, 9560
- Plywood:  
   effect of panel thickness and noncombustible inserts on surface flammability, 8064  
   Federal item identification guides for supply cataloging, supplements, 3288  
   hardwood, current industrial reports, 5862, 15997  
   manufactured in Michigan and Wisconsin, distribution methods and end-uses, 8074  
   softwood—  
     construction and industrial, standard of trade, 11586  
     current industrial reports, 5873, 16003  
 Plywood mills, closures, Michigan and Wisconsin, 2308  
 Pneumatic insulation suit for radioactivity protection, USSR, 14231  
 Pneumatic tube transportation, solids, proceedings, Institute of Gas Technology-Mines Bureau symposium, 2542  
 Pneumatic wrench retains or discharges nuts or bolts as desired, 6701  
 Pneumodensography, pediatrics application, 12748  
 Poats, Rutherford M., nomination, hearing, 9312  
 Pocket data book, USA, 5890, 5986  
 Pocket-size manual tape reader device aids computer tape checking, 17972  
 Podall, H. E., permeability requirements of membranes for use in desalination by reverse osmosis, 15331  
 Podgwaite, John D., bacteria of living and dead larvae of *Porthetria dispar*, 8075  
 Podiatry, *see* Chiropody.  
 Podosemum, *see* Muhlenbergia.
- Poetry:  
   anthology of poetry and verse, Indian Affairs Bureau, 4911  
   recorded, checklist of archives in Library of Congress, 5089
- Point, *see* name of point, except when occurring as first name of town, etc.
- Point Conception, Calif., to Mexican Border, coastal warning facilities chart, 11904
- Point Reyes National Seashore, land acquisition, clarify and increase authorization, law, 385
- Point source detection by scintillation survey meter, 1787
- Point-source detection system rejects spatially extended radiation sources, 6784
- Poison ivy, identification, precautions, eradication, 10164
- Poison oak, identification, precautions, eradication, 10164
- Poison sumac, identification, precautions, eradication, 10164
- Poisoning, *see* Lead poisoning.
- Poisonous plants, *see* names of toxic plants.
- Poisons:  
   acute hydrazine toxicity in mice, toxicologic studies, 4183  
   and other substances harmful to health, Czechoslovakian study, 14265  
   chemicals, properties and uses, USSR study, 12680  
   control centers, directory, 17139  
   maggie reduction in an urban roost, 16635

Poisons—Continued

- National Clearinghouse for Poison Control Centers, bulletins, 3593
- organophosphoric compounds, antidotes against intoxications, Rumanian study, 11271
- organophosphorus compounds, intoxication by, clinical and therapeutic aspects, Polish study, 4935
- toxicity—
  - airmen who apply insecticides from aircraft may suffer ill-defined effects, 17410
  - monomethylhydrazine on frog cornea, 10242
- see also Sprays and spraying—also names of poisons.

Poland:

- cast iron soil pipe, determination of injury to U.S. industry, 17252
- claims of U.S. nationals against, determination, hearing, 732
- diabetics treated at health resorts, 17865
- joint Soviet-Polish scientific and technical meeting, USSR study, 9658
- life described, 5001
- mineral industry, minerals yearbook chapter, 2563
- 1,000th anniversary of founding, commemorative medals, law, 361
- production growth, quantitative analysis, 6482
- Pugwash conference report, 1234
- public health organization problems, 15425
- Soviet-Polish symposium on development of science, 15411
- trade in cotton textiles, agreement, 11866

Polar bears, International Scientific Meeting, proceedings, 2280

Polar regions, see Arctic regions.

Polar Scientific Research Institute of Sea Fisheries and Oceanography, USSR, activities, 6551

Polarimeters, see Polariscopes.

Polaris (star), see Pole star.

Polariscopes:

- digital polarimeter, duty-free entry for Mount Holyoke College, 13775, 14901
- polarimeter provides transient response in nanosecond range, 8455

Polarization (electricity):

- antennas for Gemini VHF-UHF polarization experiment D-14, 10009

Polarization (light):

- fatigue zones in metals identified by polarized light photography, 9846

Polarography, new electrolyte may increase life of polarographic oxygen sensors, 6740

Polaroid film helps locate objects in inaccessible areas quickly, 6743

Pole star, ephemeris, 17902

Poland, Robert B., services offered by National Agricultural Library, 5282

Poles:

- spiral grain, cause of pole twisting, 14129
- twist and bending strength, effect of spiral grain, 14126
- wood utility, performance study, 1951-63, 1597

Polhamus, Edward C., vortex lift of sharp-edge delta wings, 2726

Police:

- and community relations, national survey, 13062
- Capitol, employ additional personnel, report, 10584
- District of Columbia—
  - canine corps, expand, report, 9127
  - examination announcements, 4407, 13440
- Police Department Band, include members of Fire Department, etc., report, 7687
- Police Department reorganization, Congress to review report of D.C. Crime Comm., final report, 6011

Police—Continued

District of Columbia—Continued

- recruitment, retention, etc.—
  - hearings, 9152
  - report, 6011
- report motor vehicle collisions to, report, 7689
- retirement benefits, equalize for totally disabled, report, 9129
- salaries, increase, law, 514
- survivor benefits for widows of retired members, report, 10558
- local agency employment data, hearings, 16325
- officers, State or local, disabled or killed apprehending violators of Federal law, compensation—
  - hearings, 15166
- reports, 14976, 15110
- patterns of behavior and citizen transaction, career orientations, etc., 13060
- police and community, dynamics of their relationship in changing society, President's Commission on Law Enforcement and Administration of Justice, 13061
- task force report, President's Commission on Law Enforcement and Administration of Justice, 10034

Policemen, see Police.

Policy equation, see Equations.

Poliomyelitis, prophylaxis, USSR study, 1266

Polish American Congress, Inc., medals commemorating 1,000th anniversary of founding of Poland, law, 361

Polish Society of Amateur Astronomers, statute, 17863

Political Activity of Government Personnel Commission:

- extend—
  - law, 13535
  - report, 9275, 12269

Political campaigns, see Elections.

Political corruption, prevention, Federal elections act of 1966, hearings, 739

Political prisoners and their relatives in Cuba, hearings, 957

Political rights of women, see Women.

Political science, publications, list, 2802

Politics:

- American parade of politics, 10078
- Communist China, translations, 3951
- Eastern Europe, translations, 3691
- food and fiber in Nation's politics, 17123
- philosophical development of theories, USSR study, 5024
- political organization of socialist society, USSR studies, 14269
- riffs within Turkish left, 14243
- South Viet-Nam, political development, 11823

Polk, Kenneth, nonmetropolitan delinquency, action program, 11906

Pollack, Gerald A., remarks, Feb. 16, 1967, 5964, 7585

Pollack, Herman, address, May 17, 1967, 14671

Pollack, Morris, labor law and practice in Israel, 16812

Pollen, mixed-pollen crosses for blister rust resistance, economical and reliable estimates, 9536

Pollen trap, 8-day volumetric sampler, description, etc., 2322

Pollution of air, see Air pollution.

Pollution of streams, see Water pollution.

Pollution of water, see Water pollution.

Polone, Dock J., soil survey of Rogers County, Okla., 1609

Polychaeta:

- Morro Bay, Calif., benthic survey, 6956
- type-specimens described by Edith and Cyril Berkeley, 5310

Polyesters, see Esters.



# INDEX 1967

## Polymers and polymerization :

- ablation polymers, determination of kinetic parameters, by thermogravimetric analysis, 9896
- actin polymer differing from F-form, USSR discovery, 12713
- arylenesiloxane copolymers, 9843
- char-forming phenolic polymer used for ablative composites, decomposition characteristics, 6862
- diluted polymer solutions, reduces drag in turbulent flow, 14592
- ferrocene polymers, annotated bibliography, 2156
- fibrous reinforcements for space application, 11418
- highly halogenated polymers, synthesis, 9855
- Japanese Association for Radiation Research on Polymers, annual report, 5758
- new heterochain polymers, USSR study, 12741
- new polymer systems for reverse osmosis membranes, research and development, 8213
- photodegradation of—
  - high polymers in solution, 5358, 10015
  - polymer films, surface effects, 18113
- polyaromatics converted into structural material by isostatic compression process, 12898
- polymeric structures, colloidal asbestos fibrils as reinforcements, 16914
- polypeptides and polymers related to collagen, USSR studies, 14270
- static electricity of polymers reduced by treatment with iodine, 14411
- structure and ionic transport of polystyrenesulfonate model membranes, 9592
- wear and friction of laminates in liquid nitrogen, etc., 2693
- see also Polymethyl methacrylate.
- Polymethyl methacrylate, photolysis, effect of additives, 10015
- Polymorphism, distribution, taxonomy in *Labiocera jollae* group, etc., 8544
- Polynoidae, bathyal polynoids from central and northeastern Pacific, 6960
- Polynomials :
  - first-order, predictor for data compression, 8491
  - manipulator AP-168 program, 9858
- Polyoma virus, interaction between virus and cells of various animal tissues in culture, USSR study, 6543
- Polypeptides, see Peptides.
- Polyps, colon and rectum, 14772
- Polysiloxanes, see Siloxanes.
- Polystyrene, monodisperse latexes, method measures mean particle diameter, 8394
- Polytetrafluoroethylene :
  - teflon insulated wire, technique for stripping, 8471
  - teflon sheet permits valve and valve actuator to move as single unit in cryogenic pipe line, 6698
- TFE-fluorocarbon (polytetrafluoroethylene), resin skived tape, standard of trade, 5286
- Polyurethanes, see Urethanes.
- Polyzon, see Victorella.
- Pomegranates, production, use, value, 1965-66, by States, 14695
- Ponderosa pine, see Pine.
- Ponds, freshwater, distribution of cobalt-60, zinc-65, strontium-85, and cesium-137, 15681
- see also Fish ponds.
- Pontius, Paul E., realistic uncertainties and mass measurement process, illustrated review, 15392
- Pontoons, Federal item identification guides for supply cataloging, supplements, 3293
- Pontryagin principle, see Principle of the maximum.
- Pony Creek, archeology, 15734

## Pooling, see Production.

## Poor :

- assets of poor and near poor, 7130
- estimates in 1965 and trends, 1959-65, 7131
- legal services in action, the poor seek justice, 12449
- Legal Services Program, advocates for the poor, 6161
- prices in poor neighborhoods, 14305
- rural, aspirations and expectations, guide, to research, 17710
- women's earnings in poor families, fact sheet, 7238
- Pope, Robert E., compensation expenditures and payroll hours, motor passenger transportation industries, 17893
- Popenoe, Peter, aeroradioactivity survey and areal geology, New York and New England, 1778
- Poppet valves, see Valves.
- Population :
  - aged, social security survey, 13120
  - census, 1790-1890, price list of microfilm copies of schedules, 1518
  - census, 1960—
    - final reports, 13402-403, 14835
    - migration between State economic areas, 13402
    - quality control of field enumeration, 17443
    - socioeconomic status, 14835
    - supplementary reports, 4301
  - census, 1970, plans, hearings, 13711
  - census publications, price list, 7056
  - characteristics of Los Angeles, south and east areas, errata, 1875
  - characteristics of selected neighborhoods in Cleveland, Ohio, 4351
  - county veteran population, Dec. 1966, estimates by States, 17283
  - crises, hearings, 956, 2121, 4642, 6112
  - index, 16416
  - current population reports, 3171
  - consumer buying indicators, 1878, 5884, 14832, 16027
  - consumer income, series, 4355, 16026
  - population characteristics, series, 176, 1874, 4348-50, 5877-78, 7483-85, 10360, 16008-9
  - population estimates, series, 177-179, 1876-77, 4352-53, 5879-83, 7486-87, 10361-365, 12086, 14831, 16010-15
  - special censuses series, 4354, 7488-89, 8949-54, 10366-379, 13398, 16016-25
  - technical studies, 1875, 4351, 12085, 17438
- current population survey, manpower statistics, concepts and methods used, 12768
- current survey of United States, origin, methods, and evolution (paper), 5885
- data controls, Atlantida, case study in household sample surveys, Spanish edition, 5899
- dynamics, Health, Education, and Welfare Department, activities, report on family planning, 1136
- education of American population, 14833
- farm, 1966, United States, 12084
- farm, series Census ERS, 12084
- field experiences in estimating growth (paper), 1880
- food and people, what we can do (remarks), 1694
- growth and earth resources, 14238
- international reports, 12090
- large metropolitan areas, provisional estimates, 177, 16013
- measures to improve medical service, USSR studies, 6538
- metropolitan areas, marital and family characteristics, 10360
- mid-decade census, take in 1975, etc.—
  - hearings, 10666
  - reports, 13663, 13686



Population—Continued

- mobility, 1874
- Negro—
  - characteristics, 4348
  - current population reports, 176
  - estimates by age and sex, 10365
  - projections of number of households and families, 1967-85, estimates, 5882
  - prospects in United States (lecture), 4357
  - Puerto Rico and outlying areas, 1960-66, estimates, 5880
- special censuses conducted by Census Bureau, summaries, 7488-89, 10379, 16018, 16023
- standard metropolitan statistical areas, 17438
- States—
  - estimates, 178, 4352
  - households, estimates, 7486
  - 1970-85, illustrative projections, 5883
  - 1970-85, revised projections, 16014
- tomorrow's population as seen today (paper), 1889
- United States—
  - by metropolitan and nonmetropolitan residence, 7484
  - estimates, 179, 1876-77, 4353, 5879, 7487, 10361-362, 10364, 16010-12, 16015
  - estimates and components of change, 12086
  - projections by age, sex, and color to 1990, with extensions to 2015, estimates, 5881
  - projections for OASDHI cost estimates, 8686
  - recent projections, comparison, 11792
- see also Rural population.
- Population Growth, Advisory Council on Programs Relating to, see Advisory Council on Programs Relating to Population Growth.
- Population Problems Office, Health, Education, and Welfare Dept.:
  - create, hearings, 956, 2121, 4642, 6112
  - index, 16416
- Population Problems Office, State Dept.:
  - create, hearings, 956, 2121, 4642, 6112
  - index, 16416
- Pore, N. A., FORTRAN program for calculation of hourly values of astronomical tide, etc., 9428
- Pork:
  - fresh, purchase specifications, institutional, approved by USDA, 17680
  - good choice for thrifty family, food value, selection, recipes, 9344
  - price spreads, 4126
  - slaughtering, cutting, and processing on farm, 8829
- Pornography and Obscenity Commission, see Obscenity and Pornography Commission.
- Porosity:
  - core samples from wells in Appalachian oilfields, 11353
  - formation in aluminum alloy welds, effect of welding position, 12903
  - sediment meter, feasibility study, 10303
- Porous materials:
  - mass transfer in porous media, 8211
  - status of porous ionizers for contact ionization of cesium, 11540
- Port Arthur, Tex., area wage survey, 14294
- Portable calf pens, 5659
- Portage County, Ohio, geology and groundwater resources, 11172
- Porter, Bernard, reaction rate of solid yttrium metal with molten lithium fluoride, 15474
- Porter, Horace G., cotton in Australia, 2286
- Portfolio of photographs, science teaching aid, 17158
- Portheiria dispar, see Gypsy moths.
- Portland, Maine, area wage survey, 5070
- Portland, Oreg., area wage survey, 15442

- Portraits, see names, etc., of subjects sitting for portraits.
- Portraits in community health (series), 5456, 13089
- Ports:
  - code classification used in compiling U.S. foreign trade statistics, schedule D, 4359, 8936
  - distances between U.S. ports, 17465
  - export corn meal port bulletin, 3248
  - export wheat flour port bulletin, 3253
  - port series, 4736, 9421, 16525
  - situation in Vietnam, followup investigation, report, 14998
  - see also names of ports, or places where located.
- Portsmouth, Va., area wage survey, 16816
- Portugal:
  - cotton textiles, trade, agreement, 1639
  - economy, basic data, 4443
  - mineral industry, minerals yearbook chapter, 11365
  - trade in cotton textiles, agreements, 8739, 15766
  - west coast, sailing directions, change, 7001, 17071
- Portuguese East Africa:
  - labor conditions, 1384
- Mozambique—
  - background notes, 18223
  - foreign trade regulations, 4437
  - mineral industry, minerals yearbook chapter, 9758
- Portuguese Guinea, see Portuguese West Africa.
- Portuguese language, spoken Brazilian, basic course, 2884
- Portuguese West Africa:
  - Angola—
    - background notes, 17212
    - foreign trade regulations, 7574
    - labor conditions, 1365
    - mineral industry, minerals yearbook chapter, 9758
  - Guinea—
    - labor conditions, 5076
    - mineral industry, minerals yearbook chapter, 9758
- Portunids:
  - portunid crabs from—
    - international Indian Ocean expedition in Smithsonian collections, 12998
    - Pacific and Indian Oceans in collections of Smithsonian Institution, 8540
- Posen, Annette, meteoric trajectories and processes, including examination of incidence by reduction of data points, etc., 15510
- Poslay, Virgile, relief, 16170
- Position classification, see Job analysis.
- Position-classification standards, 3692
- Positive displacement cylinder measures corrosive liquid volume, 6756
- Possessions of United States, see Outlying possessions.
- Post, Austin, effects of Mar. 1964 Alaska earthquake on glaciers, 11178
- Post, Edwin V., geology of Cascade Springs quadrangle, Fall River County, S. Dak., 14168
- Post Office and Civil Service Committee, House:
  - activities, summary, 4557
  - calendar, 3482
  - committee prints, 4554, 4556-57, 10675, 15046-47, 16338, 17610
  - hearings, 747-749, 4553, 9165-67, 10666-674, 12308-310, 13711-712, 16339, 17607-609
  - investigations and studies—
    - authorization, report, 6016
    - expenses, report, 7722
  - reports, 4505, 6232, 9133, 10562, 10580-581, 10613, 10619, 13662-663, 13637, 16232
  - rules, 89th Congress, 4555

# INDEX 1967

Post Office and Civil Service Committee,  
Senate:  
calendar, 3500  
committee prints, 4654-55, 13880  
hearings, 6124, 7824, 9329, 10870, 12424-  
425, 13881, 16429-432, 17671-672  
investigations and studies—  
authorization and continuation, report,  
4592  
postal service and civil service, author-  
ization, report 6072  
legislative history and report of activities,  
89th Congress, 4655  
reports, 915, 4592, 10745-746, 13727,  
13806-807, 16376  
Post Office Department:  
annual report—  
departmental edition, 18136  
document edition, 17567  
appropriations, 1968—  
hearing, 6026, 10806  
law, 13529  
reports, 9097, 10791, 13658  
Assistant Postmaster General for Bureau  
of Facilities, nomination of John L.  
O'Marra, hearing, 13881  
challenge to industry, 10028  
cost ascertainment report, 8613  
facilities handbook series, 13053  
gasoline outlets at postal installations,  
potential savings through establishment,  
GAO report, 6378  
is looking for advice, advisory boards, etc.,  
rosters, 17117  
leasing property by Postmaster General,  
extend authority—  
hearings, 7827, 9165  
law, 10484  
reports, 10562, 10726  
mailing list brokers, require registration,  
hearing, 10667  
manpower costs of railway post offices,  
potential savings available, GAO report,  
6377  
methods handbook M series, 17116  
office space, administrative, provided in  
major postal facilities, policies and pro-  
cedures, GAO review, 4880  
personnel promotion system, hearing,  
10669  
planning for tomorrow's postal service re-  
quirements, etc., 8614  
planning, programming, and budgeting  
system, description, 5389  
policies and practices for rebuilding used  
motor vehicle tires, GAO review, 14162  
postal manual, 3694  
posters, commemorative stamp, 1556, 1558,  
3106, 5386-87, 7039-41, 8611-12,  
10024-26, 11692-694, 13050-52, 14606-  
607, 15644-648, 17112-114, 18137-139  
potential savings through changes in leg-  
islation affecting compensation of rural  
carriers and consolidation of rural  
routes, GAO report, 4874  
press releases—  
general, 3753  
philatelic, 3753  
public information service PI series, 1559,  
2791, 13056, 17119  
publications, list, 1563  
report, 1966—  
departmental edition, 1557  
document edition, 528  
financial supplement—  
departmental edition, 11695  
document edition, 10499  
report on postal rates, 9076  
research & engineering, rewardlog career,  
7042  
suppliers and buyers of mailing lists, to  
furnish information with respect to their  
identity and transactions involving sale  
or exchange, hearing, 10667

## Post offices:

acquiring postal quarters, facilities hand-  
book, 13053  
civil, at military installations, adequacy,  
16338  
dedicating your new facility, guideline,  
13056  
directory, 17115  
with ZIP code numbers, 14609  
1st, 2d, and 3d class, postmaster positions,  
information, 10425  
long-term leases, extend authority—  
hearings, 7827, 9165  
report, 10726  
manual, 3694  
names, abbreviations for use with ZIP  
code, 7043  
railway, potential savings available in  
manpower costs, GAO report, 6377  
revenues and classes, 5390  
see also Zip code.

## Postage:

2d and 3d class postal rates for volunteer  
fire, ambulance, and rescue companies,  
extend, report, 694  
Post Office Dept., report on postal rates,  
9076  
postal rates, investigation, authorization  
and continuation, report, 4592  
postal revenue act of 1967, rate in-  
creases—  
hearings, 12309, 17672  
hearings, summary, 15047  
recommendations of Postmaster General,  
10675  
rate increases, message from the Presi-  
dent, 9069  
3d-class rates, bills and statements of  
account prepared by electronic data  
processing equipment, classify as 1st-  
class mail, amend U.S. Code, hearings,  
12424

## Postage stamps:

commemorative—  
1½-cent Albert Gallatin regular (post-  
er), 5386  
3-cent Francis Parkman regular (post-  
er), 15644  
5-cent—  
Canada centennial (poster), 10024  
Canada centennial address at issu-  
ance, 11697  
Christmas (poster), 17112  
Davy Crockett (poster), 14606  
Erie Canal (poster), 11692  
Finland independence (poster), 15645  
Henry David Thoreau (poster), 11693  
Henry David Thoreau stamp cere-  
mony (remarks), 14611  
Mississippi statehood (poster), 18137  
National Grange (poster), 8611  
Nebraska statehood (poster), 13050  
search for peace (poster), 11694  
servicemen-savings bonds, 1st day  
ceremony (address), 1556  
Thomas Eakins American painting  
(poster), 17113  
twin space (poster), 17114  
urban planning (poster), 15646  
urban planning, ceremony (address),  
17110  
Voice of America (poster), 13051  
Washington (poster), 18138  
8-cent Alaska purchase air mail  
(poster), 7040  
8-cent international postal card  
(poster), 18139  
10-cent Andrew Jackson regular  
(poster), 7041  
13-cent John F. Kennedy—  
aerogramme (poster), 10025  
prominent American stamp, dedica-  
tion (address), 11690  
regular (poster), 10026  
20-cent Audubon air mail (poster), 8612

Postage stamps—Continued  
 commemorative—continued  
 20-cent George C. Marshall (poster), 15647  
 20-cent George C. Marshall ceremony (address), 18135  
 25-cent Frederick Douglass regular (poster), 5387  
 \$1 Eugene O'Neill (poster), 15648  
 \$5.00 John Bassett Moore regular (poster), 1558  
 poster, 3106  
 standards, 2792  
 philatelic releases, 3753  
 Postal bulletin, *see* Postal service.  
 Postal cards:  
 commemorative—  
 6-cent Boy Scout world jamboree (poster), 13052  
 6-cent Virgin Islands air mail (poster), 7039  
 8-cent international postal card (poster), 18139  
 13-cent international air mail (poster), 14607  
 Postal employees, *see* Postal service.  
 Postal inspectors, general information, 2791  
 Postal life, magazine for postal employees, 13055  
 Postal rates, *see* Postage.  
 Postal Savings System, report on operations, 4490  
 Postal service:  
 Armed Forces, mailing privileges provide better overseas service—  
 hearings, 10670  
 law, 438  
 report, 10613  
 Armed Forces, Vietnam and Thailand, on-site inspection, report 4505  
 better service with better tools, facilities, etc. (address), 13049  
 challenge to industry, 10028  
 code of Federal regulations, 11044  
 contract mail haulers—  
 fair labor standards act and service tract act, application, 7227  
 Federal wage-hour law application, 7226  
 efficient management (address), 1555  
 employee benefits and postal services are greatly improved (address), 15643  
 employees—  
 field service, ratio of career substitutes, reduce, hearings, 17607  
 salaries, adjust, hearings, 12310, 17671  
 salary and retirement annuity increases, p. 266, 1945-66, 4556  
 field service, reclassify certain positions, hearings, 12308  
 investigations—  
 authorization and continuation, report, 4592  
 authorization, report, 6072  
 laws, 11696  
 laws, changes, 17118  
 objectives (address), 7038  
 postal bulletin, 3693  
 postal inspection service protects against mail fraud, 17119  
 postal inspector, general information, 2791  
 postal life, magazine for postal employees, 13055  
 postal zone charts, 2790  
 promotion system of Post Office Department, hearing, 10669  
 publications, price list, 10038  
 qualification standards for field service, 3791  
 registered mail, indemnity for delayed delivery, hearing, 9166  
 revolvers, use and care, methods handbook, 17116  
 rural routes, consolidation, potential savings, GAO report, 4874

Postal service—Continued  
 special services performances, cost ascertainment report, 8613  
 State postal maps, 5391-5402, 11698, 15649-662  
 structure of postal system needs revising (address), 11691  
 technology of modernization, hearings, 13712  
 transportation of mail by vessels, rates of compensation—  
 law, 17554  
 reports, 10581, 16376  
 uniform or badge of letter-carrier service, permit use in theatrical, television or motion picture production, report, 14975  
 use of mails to incite riots, penalties, amend U.S. code—  
 hearings, 15165, 16419  
 reports, 12282, 13664  
 ZIP code, last word in mail addressing, 1559  
*see also* Air mail—Franking privilege—  
 International postal service—Mail matter.  
 Postal zone charts, 2790  
 Postdoctoral fellowships in education research, 1012  
 Posters:  
 Defense Supply Agency, let's face it, security is up to you, 10901  
 DSA poster series, 4681, 7865, 10901, 13927, 15200  
 Food and Drug Administration, 16639  
 Forest Service, 16648  
 Post Office Department, commemorative stamps, 1558, 3106, 5386-87, 7039-41, 8611-12, 10024-26, 11692-694, 13050-52, 14606-607, 15644-648, 17112-114, 18137-139  
 sold by Superintendent of Documents, price list, 7058  
 uniforms of United States Navy, 1776-1898, 7008  
 use medicated feeds carefully and wisely, FDA poster, 16639  
 Postmaster General, *see* Post Office Department.  
 Postmasters, positions, 1st, 2d, and 3d class post offices, information, 10425  
 Posts, wooden, machine-driving, way to reduce highway guardrail costs, 11138  
 Potash, fertilizer supply, 8819  
 Potassium:  
 biaxially stressed D-43 alloy with refluxing potassium, compatibility, 11422  
 condensing radiator, multitude, centrally finned, experimental steady-state performance, 18052  
 high-performance once-through holling in single tubes at saturation temperatures of 1500° to 1750° F, 15504  
 high temperature, vaporization in forced convection at saturation temperatures of 1800° to 2100° F, 14391  
 human serum, estimation of change during simulated altitude and aerospace flights, 7341  
 mass transfer in stainless steel-Cb-1Zr-potassium system, and effect of stabilization of carbon and nitrogen in stainless steel, 12864  
 microlocalization in myofibrils, USSR studies with sodium tetraphenylborate and interference microscope, 14217  
 nonwetting, condensing mercury flow in horizontal cooled tubes, heat-transfer, experimental investigation, 11541  
 steady-state performance of NaK-cooled potassium condenser, 12937  
 thermal and hydraulic performance during condensation inside single tubes, 15506  
 thermodynamic properties to 2100° K., 16999

- Potassium—Continued**  
 thermophysical properties, summary, errata, 12920  
 transport mutant of *Escherichia coli* phosphorus metabolism abnormalities, 10235  
 vapors, expansion and flow characteristics, 2717
- Potassium-aluminum silicates, see Silicates.**
- Potassium isotopes, potassium-40, body composition of military population, Ft. Carson, 1963, report, 120**
- Potassium permanganate, thermal decomposition, changes in kinetic properties as result of irradiation, 11570**
- Potatoes:**  
 acreage, yield, etc., by States and seasonal groups, 13251, 14698  
 demand and price analysis, 13252  
 explosion puffed dehydrated, estimated cost of commercial production using shortened cycle, 8808  
 frozen french fried, U.S. standards for grades, 6134
- potatoes—**  
 commitments of traders, 3111  
 trading and open contracts, 3367  
 in popular ways (recipes), 15851  
 Irish, utilization of 1966 crop with comparisons, 17250  
 machine for application of dust to cut seed potatoes, 7241  
 national potato labeling act, hearing, 17649  
 National Potato Utilization Conference, report, 11919  
 planting, harvesting, marketing dates, by seasons, in principal areas, 13211  
 production and harvesting, evaluation of cost factors, 15873  
 special Idaho potato survey, 5558  
 spring crop, bulk handling from harvester to packing line, methods and costs, 35  
 spring, 1967 acreage-marketing guides, 2134  
 sprout prevention, 17301  
 storage, 20,000 cwt. arched roof, 13230  
 summer and fall, acreage marketing guides, 10872  
 total stocks, monthly report, 3942  
 winter, acreage marketing guides, 962, 16441  
*see also Sweetpotatoes.*
- Potential, generalized, for inelastic scattering, 11543**
- Potentiostatic current-potential measurements on platinum electrode in high-purity closed system, 10011**
- Potomac Planning Task Force, report, 16717**
- Potomac River and Valley:**  
 interceptor sewer, increase Federal contribution to cost—  
 hearings, 13703, 13858  
 law, 17538  
 reports, 14995, 15101  
 report on its imperiled future and guide for orderly development, 16717  
 reverse osmosis test, 6441
- Potosi quadrangle, Wis., and Iowa, geology, 6388**
- Potter, Andrew E.:**  
 electrochemical reduction of chlorine on carbon in molten lithium chloride-potassium chloride, 17003  
 mechanism of cadmium sulfide film cell, 6889
- Potter, R. C., acoustic prediction methods for rocket engines, etc., 1422**
- Pottery, workers, displaced, case study of adjustment to layoff, 1360**
- Potting compounds, see Sealing compounds.**
- Poultry:**  
 automatic feeding equipment, 8830  
 broiler house pole construction, building plan, 40  
 byproducts, salmonella control, sanitation guidelines for processors, 11922  
 commercial broiler production, 5623
- Poultry—Continued**  
 estimates, background on revisions, 8752  
 foreign agriculture circulars, 3345  
 good choice for thrifty family, recipes, 9349  
 hatchery production, 3390  
 home freezing, 4107  
 houses and equipment for laying hens, for loose housing, 10183  
 inspection regulations, hearing, 710  
 inspectors' handbook, 13889  
 inventory, 5682, 7198  
 market statistics, 1966, annual summary, 7299  
 national improvement plan—  
 hatcheries and dealers participating, 5615, 10150  
 provisions, 14752  
 record of performance test summary, 7243  
 packaging and price marking in retail food stores, systems and equipment, 7276  
 plants operating under inspection and grading programs, lists, 2137, 16446  
 poultry and egg situation (periodical), 3695  
 processing plants, chemical compounds authorized for use under USDA inspection programs, lists, 10878, 16445  
 publications, price list, 2800  
 slaughtered under Federal inspection, monthly report, 3696  
 USDA grades, how to buy, 5671  
 used in canning and processed foods, monthly report, 3696  
*see also Avian Leukosis—Chickens—Food for poultry—Turkeys.*
- Poverty:**  
 American families in poverty, fact sheet, 5600  
 Communist China, anti-economism campaign idealizes poverty, USSR historian claims, 6582  
 community development district act of 1966, rural poverty program, reports, 622, 10748  
 economic opportunity act—  
 amendments of 1966—  
 law, 498  
 narrative summary, 6164, 9382  
 text as amended, 6124, 7874  
 from world of poverty to life of hope, year in Neighborhood Youth Corps, 6590  
 investment in poor people, 5044  
 Legal Services Program, advocates for the poor, 6161  
 opportunity loan program, battle to combat rural poverty, 5674  
 poor in 1965 and trends, 1959-65, 7131
- rural—**  
 and economic development (statement), 6158  
 existence and elimination (statement), 7296  
 Farmers Home Administration reduces, 5670  
 hearings before National Advisory Commission on Rural Poverty, 15668, 17126-127  
 reduction through public and private effort (remarks), 6204  
 role of education in alleviating, 10917  
 social security benefits and poverty, status of low-income beneficiaries or aged persons, 7132  
 study, authorization and expenses, report, 6079  
 study, expenses, report, 15136  
 study, hearings, 10860  
 urban and rural recommendations, message from the President, 7612
- war on poverty—**  
 advisory councils, monthly newsletter, 2990  
 communities in action (periodical), 3124  
 communities in action, information service, 3125

Poverty—Continued

- war on poverty—continued
- community action program, public affairs handbook, 13940
- conference proceedings, 16481
- examination, hearings, 12420, 13878, 15171, 16427, 17665
- labor's role, seminar, 11299
- legal services program, monthly account, 3466
- news summary, 3632
- project moneywise, role of credit unions, 9451
- rural opportunities (periodical), 3842
- the watershed, a new look at war on poverty, 10915
- voluntary help wanted for projects, 9386
- what VISTA volunteers are doing, 10909
- women in poverty, jobs and need for jobs, 14727
- work experience and training program, 12482
- workers questions and answers on race relations and civil rights, guide, 10913
- Povinelli, Louis A., transverse-mode solid-propellant combustion instability in vortex burner, experimental investigation, 1511
- POW, see Prisoners of war.
- Powder metallurgy, see Metallurgy.
- Powders:
  - dry chemical fire-extinguishing, determining specific surface, permeability and elutriation methods, 11678
  - experiments to investigate particulate materials in reduced gravity fields, 18000
  - standard X-ray diffraction patterns, 15591
  - submicron, blending methods for dispersion alloys, comparison, 6880
- Powell, Adam C.:
  - right to be sworn in as Representative from New York State in 90th Congress—
  - hearings, 6038
  - investigation, expenses, report, 6010
  - report, 7664
- Powell, Howard E., magnetic susceptibility of 19 nickel- and cobalt-bearing minerals, 17911
- Powell, Jules V., bibliography on marketing woody plants and related nursery products, 1708
- Powell, R. W., thermal conductivity of selected materials, 1523
- Powell, Y. Marjorie Flores, see Flores, Y. Marjorie.
- Power:
  - clutches and power-stop control, classification definitions, 18132
  - conservation, code of Federal regulations, 11035
  - Federal power act—
  - amend, hearings, 16401
  - text, 17759
  - fluid, Navy training course, 5338
  - harmonic generation, use of millimeter wave diode, 11483
  - machinery, USSR industrial development, translations, 4018
  - motive, for class 1 railroads, 3587
  - Northeast power failure, Nov. 9-10, 1965, hearings, addendum, 2053
  - power engineering trends in Latvian SSR, 1235
  - power-spectral-density computer program, 11481
  - radioisotopes as power sources in Western Europe, 15416
  - required to circulate gas-solids suspensions, 15483
  - satellite systems configurations for maximum utilization, study and analysis, 16918

Power—Continued

- sources and structures, surface-to-air missile series, engineering design handbook, 15928
- space systems—
- electrical component technology, design studies, 15964-965, 17399
- solar-cell performance using spectral dispersion, 15579, 16992
- spectral shapes, fatigue life under random loading, 17013
- see also Atomic energy—Electricity.
- Power and responsibility, 5530
- Power boilers, see Boilers.
- Power equipment in mineral industries, 7471
- Power plants:
  - classification definitions, 18121
  - India, Soviet studies, 6525
  - space power systems advanced technology conference, 1440
  - space, Rankine-cycle 3-loop steady-state and dynamic operating characteristics, 2603
  - see also Electric power plants.
- Power reactors, see Reactors (atomic).
- Power resources:
  - energy R & D and national progress, 2851
  - findings and conclusions, 10075
- Power sprayers, see Sprayers.
- Power tools, power arc welder touch-started with consumable electrode, 6803
- Power transmission:
  - eccentric drive mechanism is adjustable during operation, 17984
  - equipment, mechanical, Federal item identification guides for supply cataloging, supplements, 3285
  - underground, report, 12513
- Power trucks, safe practices, 9722
- Power Use Conference, Portland, Oreg., proceedings, 10323
- Powers, R. W., geology of Arabian peninsula, sedimentary geology of Saudi Arabia, 1124
- PPBS (Planning, Programming, and Budgeting Systems) Training Center, see Financial Management and PPBS Training Center, CSC.
- Prabhu, Albert V. M. Ferris, see Ferris-Prabhu, Albert V. M.
- Practical nurses, see Nurses and nursing.
- Practical nursing, see Nurses and nursing.
- Prague, Czechoslovakia, East of the Elbe, study mission report, 6104
- Prasatis, A. L., bonding of oxides of high temperature alloys, 10016
- Praseodymium, metals, electrowinning from their oxides, 11384
- Pratt, Walden P., geology of Hurley West quadrangle, Grant County, N. Mex., 12601
- Pravda (periodical):
  - editorials, translations, 3948
  - political reviewer's comments on 1966, USSR study, 5006
- Preamplifiers, see Amplifiers.
- Pre-Cambrian period:
  - petrology and structure of Precambrian rocks, Central City quadrangle, Colo., 12611
  - rocks of Groom district, Nev., 14169
  - younger Pre-Cambrian geology in southern Arizona, 16696
- Precipitation:
  - calcium sulfate investigation, final report, 14198
  - five continents, forecasts, comparisons, etc., 11790
  - hourly data, by States, etc., 3401
  - Northwest States, probable maximum, 5594
  - Pacific Northwest, monthly, 3669
  - Tennessee River basin, monthly, 3698
  - United States, long-range forecast, supplement, 11791
  - see also Rain.

- Precipitation (chemistry):  
kinetics of excess solute precipitation in liquid sodium solutions, 5359
- Precision CW laser automatic tracking system investigated, 6791
- Precision instruments:  
East European industries, translations, 3955  
USSR industrial development, translations, 4019, 4022
- Prediction (psychology):  
Air Force Academy cadets, class of 1967, 1st year achievement, 17343  
Air Force weather forecaster proficiency test correlates, 8863  
airman performance prediction from trait ratings, 11952  
automobile accidents among Air Force personnel, 17344  
reenlistment at end of 1st term of Army service, 118  
success in instructional programmer school, 17345
- Prediction of absolute entropies from gas chromatographic retention data, 18111
- Predmore, R. E., damping behavior of DeHavilland stem booms, 11539
- Prefabricated buildings, see Buildings.
- Pregnancy, childbearing and diabetes mellitus, 1960-62, United States, 5469
- Pre-Gondola Project, see Project Pre-Gondola (field cratering experiment).
- Premium pay, see Hours of labor.
- Packaging, see Packaging.
- Preparedness, see National defense.
- Preregulator feedback circuit utilizes light actuated switch, 2663
- Preschool children, see Children.
- Pre-Schooner Project, see Project Pre-Schooner (field cratering experiment).
- Prescriptions:  
drug prescription programs, digest, 8628  
medicines and other pharmaceutical preparations which may be dispensed by pharmacies without physician's prescription, Czechoslovakian list, 12673
- Present value of estimated lifetime earnings, 13401
- Preservation of biological specimens, see Biology.
- Preservation of food, see Food.
- Preservation of materials, classification definitions, 18119
- Preservatives, see Wood preservatives.
- Preserves, how to make at home, 5629
- President of United States:  
code of Federal regulations, 9459, 14033, 16586  
economic report—  
departmental edition, 5406  
document edition, 4486  
extending date for transmission, law, 9031  
hearings, 9046  
report, 7785  
election campaign fund act—  
guidelines—  
law, 12168  
legislative history, 13719  
report, 10614  
law, 513  
law, summary, 9177  
legislative history, 7762  
report, 702  
Senate amendments, summary, 4567  
elections, amend equal time provisions of communications act, hearings, 16400  
funds appropriated to the President, 1968, budget amendment, 10519  
inaugural ceremonies act, amend, report, 7686  
messages, see, in main alphabet, subject of message.  
papers—  
announcement and order form, 8622  
index series, 6623
- President of United States—Continued  
papers—continued  
Jackson, Andrew, 6623  
Johnson, Lyndon B., 2256, 4780  
Truman, Harry S., 1059  
Presidential documents, weekly compilation, 4054  
press releases, 3754  
remarks, etc.—  
Sept. 27, 1966, 2734  
Oct. 7, 1966, 1626  
Oct. 17-Nov. 2, 1966, 2880  
Sept. 29, 1967, 18228  
state of the Union message, 12195  
veto messages, employees' life insurance coverage, 4467, 16155  
Presidential Election Campaign Fund Advisory Board:  
establish—  
law, 513  
law, summary, 9177  
legislative history, 7762  
report, 702  
Senate amendments, summary, 4567  
Presidential scholars, see Scholars.  
Presidential Task Force on Career Advancement:  
report, 7046  
appendix, 10030  
President's Commission on Budget Concepts, report, 18146  
President's Commission on Crime in District of Columbia:  
appropriations, 1967, law, 501  
report, 2794  
appendix, 2795  
President's Commission on Law Enforcement and Administration of Justice:  
appropriations, 1967, law, 501  
challenge of crime in free society, report, 7044  
field surveys, 13058-62  
recommendations in report, message from the President, 5998  
symposium on science & criminal justice, 11699  
task force reports—  
corrections, 10031  
courts, 10032  
crime and its impact, assessment, 13065  
drunkenness, 13066  
juvenile delinquency and youth crime, 11703  
narcotics and drug abuse, 13067  
organized crimes, 10033  
police, 10034  
science and technology, 11704  
President's Commission on Patent System:  
reports, 2796, 6053  
appraisal (address), 7031  
print as Senate document, report, 4598  
President's Commission on Postal Organization:  
appropriations, 1968—  
amendments, 13723  
hearings, 15147  
report, 15131  
President's Commission on Status of Women, report, excerpts on counseling and guidance, 7236  
President's Committee on Consumer Interests, activities 1964-68, summary, 10029  
President's Committee on Employment of the Handicapped:  
action, 1967-68 program guide, 17121  
awards and recognition program, 1355  
awards program at a glance, 1356  
membership directory, 2491  
national ability counts contest for 11th and 12th grade students, announcement, 15667  
performance, story of the handicapped, 3630  
press releases, 3755  
this is President's Committee on Employment of the Handicapped, 18147



President's Committee on Mental Retardation:  
1st meeting, sets goals for future, 7047  
Members, biographies, 5407  
messages from, 1560, 5407, 7047-48  
PCMR progress, 2793  
report on Nation's progress and great needs in campaign to combat mental retardation, 15665

President's Council on Physical Fitness:  
demonstration center schools, projects, 18145  
new youth fitness test norms and presidential award, 5408  
newsletter, 3634  
youth physical fitness, suggested elements of school-centered program, 8617

President's Council on Recreation and Natural Beauty:  
general information, 8616  
purposes and missions (remarks), 4914

President's reorganization plans, see Government reorganization plans.

President's Science Advisory Committee:  
computers in higher education, report, 8615  
Panel on Educational Innovation, report, 15663  
space program in post-Apollo period, 7050  
world food problem, reports, 11706-707

President's Youth Opportunity Campaign, 1966, HOPE, highlights of personal experiences in Department of Agriculture, 8833

Presman, Mario, relief, 550

Presplitting, controlled blasting technique for rock cuts, 5476

Press:  
Albania, information report, 3701  
censorship, field manual, 13293  
Communist China, Red Guard press information, 14249  
Iran, information report, 3702  
Latin American, abbreviations used, glossary, 12721  
Soviet materials on arms control and disarmament (periodical), 3888

Press releases, see names of offices issuing releases.

Pressmen, cylinder pressman, examination announcement, 5926

Pressoreceptors, aortic baroreceptors, 11278

Pressure:  
behavioral changes in rats at ground level following gestation and growth in 100 percent oxygen at reduced pressures, 15899  
characteristics, nonwetting - condensing flow of mercury in sodium-potassium cooled, tapered tube, 1498  
conical probe, performance at Mach numbers of 3.0, 4.5, and 6.0, 5230  
distribution curves applicable to pneumatic tires, experimental study, 11401  
distributions—  
effect of roughness on heat transfer to hemisphere cylinders, 8492  
for freon-113 condensing in downward flow in vertical tube, 11510  
oscillating panels in low supersonic flow turbulent boundary layer, 6718  
drop—  
and heat transfer for water boiling in single-tube heat exchanger, 14463  
two-phase flow through abrupt expansions and contractions, 7431  
effect of sound wave on cryogenic fluid, 12940  
engine cylinder, variation, indicator system provides complete data, 5200  
external, sandwich and ring-stiffened 120° conical shells, buckling, effect of edge constraint, 11417  
fixture tests bellows reliability through repetitive pressure/temperature cycling, 11448

Pressure—Continued  
flight-measured chordwise distributions of helicopter rotor blade as compared with 2-dimensional airfoil characteristics, 11502  
fluctuations on flat plate with oblique jet impingement, 14388  
gas-reservoir properties determined from pressure buildup data, 15479  
hydrostatic, large-diameter ring-stiffened cylinder subjected to, test, 1479  
long-term lower body negative pressure, influence on circulatory function of man during prolonged bed rest, 1734  
low—  
application of orbitron ionization gage, study, 16909  
environments, indirect calorimetry, 11957  
measurement, bibliography and index, supplement, 12984  
steam-water flow in heated vertical channel, 7430  
lower body negative pressure—  
and orthostasis, forearm vascular responses, 4175  
effects on physiologic changes due to bed rest, 7346  
measured static pressures in low-density arc-heated wind tunnel, effect of orifice size and heat-transfer rate, 6876  
measurements on board entry vehicle, use in determining structure of atmosphere, 9904  
miniature telemetry system accurately measures, 6786  
oxygen environment at 210 mm Hg. absolute, effects on rats, 1740  
pressure levels and pulsation frequencies can be varied on high pressure/frequency testing device, 17971  
pressures and forces on flare-stabilized bodies in air and in mixture of 85-percent CO<sub>2</sub> and 15-percent air, 17011  
quick-response servo amplifies small hydraulic pressure differences, 6696  
rapid loss, provided by high speed blowdown system, 8468  
rugged switch responds to minute pressure differentials, 17996  
sensor, miniature capacitor devised, 6747  
temperature diagrams construction for multicomponent systems after method of Schreinemakers, geometric approach, 2359  
testing of instrumentation fittings, portable fixture facilitates, 11458  
water, encountered during landing of Apollo spacecraft, dynamic model investigation, 16970  
see also Atmospheric pressure.

Pressure gages:  
modified McLeod, eliminates measurement errors, 1465  
piezo-bar pressure probe, 14446  
Pressure probe compensates for dimensional tolerance variations, 6764  
Pressure regulators, high impact, withstands impacts of over 15,000 g., 16937

Pressure suits:  
integrated restraint-pressure suit system, development of internal restraint system, 6727  
partial, new concept, 10237  
physiological, psychological, and bacteriological aspects of 20 days in full pressure suits, etc., 6723  
Pressure switches, design concept for callibrator, 6763  
Pressure transducers, see Transducers.

Pressure vessels:  
Army SM-1A reactor, radiation embrittlement, projected estimates, neutron spectral effects, 1554  
high speed blowdown system provides rapid pressure loss, 8468



## Pressure vessels—Continued

- ships of Navy, military standard, 2154
- steels, reactor, neutron embrittlement, 5355-56
- wall of A 302-B steel, neutron exposure, through-thickness notch ductility and tensile properties, 17093
- Pressure waves, finite amplitude acoustic, define propagation characteristics, 8421
- Pressurization, reverse, prevented by check valve installation in pilot operated relief valve, 6815
- see also* Tanks.
- PRESTO, program for rapid earth-to-space trajectory optimization, errata, 5157
- PRESTO II, digital computer program for trajectory optimization, 6717
- PRESTO version delta, program for rapid earth-to-space trajectory optimization, 5178A
- Prestressing:
  - prestressed concrete reactor vessel—
    - for boiling-water reactor, 13319
    - model 1, 13320
    - model 2, 13321
- Presurfacing green oak lumber to reduce surface checking, 2301
- Preuss, Luther E.:
  - absorptiometry with beta excited X-ray sources, Interim report, 5770
  - compilation of beta excited X-ray spectra, 5189
- Preventing office accidents, 9713
- Prevention of accidents, *see* Accidents.
- Preventive maintenance, 9720
- Preventive medicine, *see* Medicine.
- Pribilof Islands, fur seals and other wildlife, conserve, law, 416
- Price, Don:
  - geology and water resources in French Prairie area, northern Willamette Valley, Oreg., 14179
  - ground-water reconnaissance in Burnt River Valley area, Oreg., 14182
- Price, Donna, proceedings, 4th symposium (International) on detonation, 13030
- Price, Earl A., Jr., turbulent separated flows investigation in vicinity of fin-type protuberances, 6857
- Price, Thomas R.:
  - photodegradation of high polymers in solution, 10015
  - surface effects in photodegradation of polymer films, 18113
- Price, William G., and Price current meters, description, etc., 9951
- Price lists, *see* Government publications—*also* subjects.
- Price supports, *see* Prices—*also* names of commodities, etc.
- Prices:
  - agricultural prices (periodical), 2999
  - comparison with OASDI retirement benefits, 1966 experience, 8690
  - consumer price index—
    - city average and selected items, 3143
    - history and techniques, 2500
    - selected items and groups, 3144
    - short description, 15451
    - technical notes, 15449
  - crop values, season average prices, value of production, 8754
  - data requirements in award of contracts and subcontracts, Defense Dept., GAO report, 4867
  - Defense Contract Audit Agency review of contractors' price proposals, GAO report, 6385
  - demand and price situation, 3197
  - farm and food prices, background, 15845
  - farm-retail spreads, dairy products, 10181
  - food costs, farm prices, information relating to agriculture, 13694
  - index numbers, hydraulic turbine industry, 3415

## Prices—Continued

- indexes—
  - automobiles, 1967 model, 16832
  - department store inventories, 6614, 16823
  - medical care, report to the President, 8194A
  - Pacific Northwest forest industries, 3774
  - parity returns position of farmers, report, 13724
  - print as Senate document, report, 15100
  - poor neighborhoods, 14305
  - price developments, causes, etc., 14304
  - price discrimination legislation, hearings, print additional copies, reports, 916, 2030
  - price support loan or resale program for farm products in commercial storage, hearings, 10627
  - price supports—
    - active and announced programs, 2984
    - statutes, compilation, 7262
  - productivity, prices, and incomes, study, 12190
  - prosperity and prices (remarks), 235
  - quality and pure price index, 8322
  - spot market price index and prices, weekly summary, 3182
  - wholesale, index numbers, 3408
  - wholesale price index—
    - monthly, 4067
    - monthly, preliminary estimate, 8324
    - prices and price indexes, monthly, 4066
    - weekly, 4065
  - see also* names of commodities.
- Pride, a tale of mountain life in the Ukraine, 16781
- Priede, Antra, FORTRAN program for computation of Weber functions, etc., 8484
- Priest, Joseph R.:
  - differential cross section for (d,  $\alpha$ ) reaction on scandium 45, 16989
  - interpretation of (d,  $\alpha$ ) reactions on fluorine 19 and nitrogen 15, 9873
  - investigation of (d,  $\alpha$ ) reaction on aluminum 27, 6852
- Prieto, Ernesto N., relief, 13748, 16219, 17520
- Prieto, Marcial A. Marti, *see* Marti Prieto, Marcial A. (Alfredo).
- Primary batteries, *see* Electric batteries.
- Primas, James E.:
  - records of Dept. of State relating to internal affairs of—
    - Bolivia, pamphlet, 18063
    - Central America, pamphlet, 18067
    - Nicaragua, pamphlet, 18062
  - records of Dept. of State relating to political relations between U.S. and Costa Rica, pamphlet, 18066
- Primates:
  - equilibrium function, effects of pulsed ionizing radiation, 7354
  - protons effects, 4179
- Primers (paint):
  - synthetic resin, for coal-tar enamel, 10073
- Primitive areas, *see* Wilderness areas.
- Prince Georges County, Md., soil survey report, 11808
- Prince William Forest Park, general information, 14553
- Prince William Sound:
  - earthquake of 1964—
    - and aftershocks, research studies, seismology and marine geology, 12117
    - horizontal and vertical crustal movement, 5940
- Princess Coal Reserve District, land disturbances from strip-mining, 17801
- Princeton University, mass spectrometer and rheogoniometer, duty-free entry, 618, 7651, 14885, 16354
- Principle of the maximum, dynamic programming and Pontryagin's maximum principle, 14387

Principles of scientific communism, USSR, 12682  
 Printed circuits, *see* Circuits.  
 Printer proofreaders, *see* Proofreaders.  
 Printers:  
   examination announcement, 204  
   hand compositor, examination announcement, 204  
   monotype keyboard operator and slug machine operator, etc., examination announcement, 4410  
   amendment, 13437  
   printing crafts, compositor, bookbinders, pressman, machinist, lithographer, photengraver, apprentice, 4391  
 Printing:  
   House of Representatives majority and minority rooms, exempt from D.C. sales and use taxes, report, 9087  
   industry report, 3770  
   industry, union wages and hours, 15445  
   job printing shop, bibliography, 15731  
   printed matter, trade and tariff information, summaries, 8765  
 Printing Joint Committee:  
   committee print, 7765  
   Federal printing program, report on study, 10688  
   paper specifications standards, 2066  
 Prints:  
   and pictorial illustrations, catalog of copyright entries, 968, 2141, 6137, 17682  
   commercial, catalog of copyright entries, 12434, 17684  
   National Library of Medicine collection, 14527  
   relating to dentistry, 12995  
 Prinz, William C., geology and ore deposits of Phillipsburg district, Granite County, Mont., 15305  
 Priroda (periodical):  
   reports on medical and biological research, 16778  
 Prisk, Charles W., remarks, Dec. 5, 1966, 5475  
 Prisms, reflector, spectral dispersion, for solar-cell space power systems, 15579  
 Prisoners, *see* Military prisoners—Political prisoners—Prisoners of war—Prisons and prisoners.  
 Prisoners of war:  
   treatment under Geneva conventions, Army pamphlet, 15939  
   U.S. fighting man's code, 13286  
   Viet-Nam information notes, 17219  
 Prisons and prisoners:  
   Atlantic (periodical), 3049  
   District of Columbia—  
     jail inmates, authorize transfer to other institutions notwithstanding pendency of petition for writ of habeas corpus, reports, 878, 12393  
     work release program for prisoners, authorize—  
       hearing, 727  
       law, 507  
   eagle (periodical), 3216  
   executions, 17128  
   laws, compilation, 1982  
   national prisoner statistics series 5409, 17128-129  
   new era (periodical), 3620  
   prisoners in State and Federal institutions for adult felons, 5409  
   re-educating confined delinquents, 2798-99  
   State prisoners, 1964, admissions and releases, 17129  
   statistical report, fiscal year, 18148  
 Prisons Bureau:  
   annual report, 8618  
   statistical report, fiscal year, 18148  
 Pritzker, Leon, measuring quality of housing, appraisal of census statistics and methods, 13413

Privacy:  
   computer role as potential invasion, hearings, 10856  
   Government employees, protect—  
     hearings, 7822  
     report, 15121  
   invasion by Government agencies, hearings, 2049, 4648, 6118  
   print additional copies, reports, 10592, 10786  
   privacy and behavioral research, 7107  
   right of privacy act of 1967, hearings, 10858, 17662  
 Private enterprise, *see* Business.  
 Private express statutes, *see* Letters.  
 Private international Law, Hague Conference on, *see* Hague conference on Private International Law.  
 Private laws, *see* Law.  
 Private pilot, written examination guide, 14071  
 Private schools, *see* Schools.  
 Prizes, *see* Rewards (prizes, etc.).  
 PRL, *see* Personnel Research Laboratory.  
 Probabilities (mathematics):  
   distributions of signals and noise, 1st and 2d order, measuring system, devised, 17085  
   geomorphology, probability concepts, 2366  
   ionization probability of iron particles at meteoric velocities, 11406  
   random process theory aids, digital data processing study, 16952  
   random processes, statistical analysis, computer program performs, 2652  
   structural optimization with probability of failure constraint, 5252  
   target lock-on by automatic ranging system during automatic search, USSR study, 11283  
 Probation:  
   Federal probation (periodical), 3309  
   Federal system, persons under supervision, 15821  
 Probeneid, uricosuric drug administration on uric acid levels in unstimulated paratid fluid, effect, 11960  
 Probes:  
   antennas effects on aerodynamic characteristics of Apollo spacecraft, 12948  
   atmospheric stability and drag characteristics at Mach numbers of 10 and 26, 9894  
   conical, pressure, performance at Mach numbers of 3.0, 4.5 and 6.0, 5230  
   glow discharge density sensor probe life is extended, 14430  
   moisture content of wood products in use, accurate determination, 2298  
   movable rf probe eliminates need for calibration in plasma accelerators, 17973  
   pressure probe compensates for dimensional tolerance variations, 6764  
   self-calibrating catalytic, use to measure free-stream atom concentration in hypersonic flow, 11408  
   thermal conductivity, for soils and insulations, 4201  
   thermal, for glaciers, heat transfer and performance analysis, 17377  
   ultrasonic water column probe speeds up testing of welds, 5225  
   *see also* Electric probes—Pioneer space probes.  
 Problem of many bodies, *see* N-body problems.  
 Problem of meeting movements, 15427  
 Problem solving:  
   economic calculation and cybernetics, Rumanian studies, 1309  
   impulsive solution, use in optimum trajectory problems with bounded thrust magnitude, 12963  
   problem of game encounter of movements, USSR study, 12676

# INDEX 1967

- Problems of astrophysics (USSR periodical): translations, 15582
- Problems of cybernetics (USSR periodical): translations, 6526, 14230
- Problems of information transmission (USSR periodical), 3772
- Problems of virology (USSR periodical): translations, 5026
- Procamburus, new crayfish from Alabama caves, etc., 17050
- Procedures manual for resource management at class 1 installations, 7384
- Proceedings of National Museum, 2751, 5304-16, 6943-71, 8536-50, 9952-53, 11603-612, 12998-999, 14533-546, 15602-607, 17050-51, 18089
- title page, etc., 13000, 14544-46
- Process produces chlorinated aromatic isocyanate in high yield, 6808
- Processing of food, *see* Food processing—also names of foods processed.
- Processing personnel actions, 3298
- Processors, data compression, parallel operating, conceptual stage, 12014
- see also* Signal processors.
- Procurement, *see* Air Force—Air Force Systems Command—Armed Forces—Army—Defense Department—Federal Aviation Administration—Government contracts—Government supplies—Military supplies—National Aeronautics and Space Administration—Navy—Navy Department—also names of commodities procured.
- Prodoxinae, *see* Moths.
- Produce, *see* Agricultural products.
- Product Safety Commission, *see* National Commission on Product Safety.
- Production:
- American industrial production, impact of waterborne commerce, 8574
  - commodity transportation survey, census 1963, production areas, 7473
  - computer production technology, USSR study, 6493
  - connecting dynamic production models into schemes, USSR study, 17869
  - coordination with science for needs, USSR study, 1262
  - defense—
    - loan guarantees, regulations, 1066
    - research and development, small business pooling, 5496
  - defense mobilization organization directory, 4460
  - defense production act progress report, hearing, 12185-186, 13543, 14916
  - engineering, problems of science, USSR study, 2432
  - farm, changes, 13247
  - industrial indexes, 1961-65, 1063
  - Latvia, State prize candidates in production, USSR, announcement, 12683
  - management, defense materials system, monograph, 9608
  - manual for Contract Administration Services, 16461
  - mine production-scheduling model, etc., for long-range planning, 9786
  - national defense, report, 2036
  - new benchmark measures, 12533, 14041
  - 1970 input-output coefficients, 17891
  - output, indexes per man-hour—
    - private economy, 8319, 11333
    - selected industries, 6612
    - steel industry, 5055
  - Pacific Northwest forest industries, 3774
  - physiological basis of methods of increasing labor productivity, USSR study, 16766
  - Poland, quantitative analysis of growth, 6482
  - procurement and production, manufacturing methods and technology, 5-year program, 15943
  - productivity, prices, and incomes, study, 12190
- Production—Continued
- research reports, 50, 4140, 5678, 14759, 15873-874
  - surveillance, graphic charting techniques, training manual, Defense Supply Agency, 10891
  - see also* Gross national product—also names or classes of commodities.
- Production control, tabular line-of-balance technique, 7433
- Production credit associations, operations, 1966, summary, 10975
- Productivity, *see* Production.
- Products, *see* Commercial products.
- Products Safety Commission, *see* National Commission on Products Safety.
- Professional education in the public interest (remarks), 5037
- Professional papers:
- Environmental Science Services Administration, 15230
  - Geological Survey, 1119-24, 2363-72, 4889-91, 6397-6408, 8159-76, 9572-74, 11171-182, 12606-615, 14170-175, 15308-311, 16691-699, 17823-827
- Professional Photography Week, designate, report, 10775
- Professional workers:
- definition under fair labor standards act, 1665
  - education of handicapped children, preparation of professional personnel, manual, 16508
  - employment in State governments, 15450
  - senior level positions, examination announcement, 8988
  - staffing American colleges and universities, 7913
  - State agricultural experiment stations and other cooperating State institutions, 5622
  - women in professional and technical positions, fact sheet, 5602
- Professionalism and the soldier, 4212
- Professions:
- allied health—
    - educational improvement grants, 2807
    - personnel training act of 1966, law, 463
  - employment and training opportunities for women, 1669
  - health education, publications, bibliography, 5459
  - health, scholarship program, 13082
  - publications, price list, 17133
- Profiles of military chargeable services, 10296
- Profiles of newly independent states, 11826
- Profit:
- innovation and profitability (address), 7568
  - large corporations, quarterly report, 3847
- Profit sharing, income tax laws, and regulations, 9596
- Program aid series, 43-49, 1710-18, 4128-37, 5666-77, 7281-93, 8838-45, 10188-194, 11937-938, 13235-237, 14754-758, 15866-871, 17326-330
- Program evaluation and review technique:
- computer PERT technique monitors actual versus allocated costs, 8458
- PERT, Army programs, 1752
- simplified system, 14435
- theory of PERT and control systems, USSR study, 4932
- Programmed computers, *see* Electronic computers.
- Programmed instruction:
- Belorussian SSR, status, 1218
  - catalog of instructional material, Navy, 18106
  - civil defense, orientation—
    - governmental responsibilities, 13432
    - nuclear weapons effects, 13429
  - panel book to accompany text, 14846
  - protection against what, 13428

- Programmed instruction—Continued  
civil defense, orientation—continued  
shelters, 13430  
warning, emergency operations, and support programs, 13431  
complex classroom, proposed, USSR study, 9661  
electromechanical model of man's muscles and its use in programmed teaching, USSR study, 2466  
evaluation, USSR study, 1217  
maneuvering board, course, 9978  
military schools adopt programmed teaching methods, USSR, 16756  
prediction of success in instructional programmer school, 17345  
programmed learning, Air Force manual, 8850  
radiation monitoring, programmed instruction book, 15973  
Soviet, recent advances, 6495  
theory and practice, USSR studies, 1297  
USSR, state of development, etc., 11248
- Programmers:  
career opportunities, IRS, 6459  
computer specialists, computer programmer, computer systems analyst, examination announcement, 13441
- Programming (computers), see Electronic computers.
- Programming (mathematics):  
dual problems in convex and convex-fractional programming in functional spaces, USSR study, 17862  
dynamic programming and its application to optimization problems of flight mechanics, 11572  
dynamic programming and Pontryagin's maximum principle, 14387  
linear fractional programming, USSR study, 8263
- Programming (planning):  
libraries, statewide long-range planning, conference report, 1016  
planning-programming-budgeting system—hearings, 15158  
initial memorandum, 16415  
official documents, 13866  
print additional copies, report, 15140  
Post Office Department, description, 5389  
remarks, 17842  
selected comment, 13867  
print additional copies, report, 15135  
Post Office Department, planning for tomorrow's postal service requirements, etc., 8614  
program analysis techniques, bibliography, 1824  
State and local programs, criteria for evaluation, study, 16411
- Programs for the handicapped (periodical), 15316
- El progreso de la Instrucción publica en los Estados Unidos de America, 1966-67, 13952
- Progress-American women, 3776
- Progress in sport fishery research, 12548
- Progress, Missouri River Basin, 3777
- Prohías, Dario L. Platas-, see Platas-Prohías, Dario L.
- Project Apollo (man-in-space program):  
accident, Jan. 27, 1967, hearings, 6088-89, 9299, 10796, 12316, 12396  
Apollo reliability and quality assurance program plan, 2593, 11393  
Apollo/Saturn V replica model, design and fabrication considerations, 16988  
Apollo 204 Review Board report to Administrator, NASA, 9931, 17020  
Apollo wind tunnel testing program, historical development of general configurations, 2722  
command module—  
low-speed dynamic-model investigation of configurations in Langley spin tunnel, 14452  
stability characteristics, 8500
- Project Apollo—Continued  
entry flight aerodynamics from Apollo mission AS-202, 17009  
manned space flight, NASA facts, 8431  
midstream appraisal (lecture), 5498  
pace and progress of program, staff study, 10676  
passive infrared acquisition and tracking system, analysis, 5177  
pilot-controlled docking simulation of command and service module with lunar module, 2689  
sextant navigation measurements during lunar module rendezvous, analysis, 6903  
space program in post-Apollo period report, 7050  
vehicle under entry conditions encountered during lunar return, trajectory optimization, 9919
- Project Charlot (nuclear excavation):  
areal geology in vicinity of Charlot site, 8162  
potential effects on local water supplies, northwestern Alaska, 2369
- Project Dribble (Salmon event):  
Vela Uniform program—  
decoupled nuclead explosion, earth vibrations from nuclear explosion in salt dome, 8911  
seismic velocity determination and distance measurements in salt dome, 1808  
timing and firing, 1810  
vent-gas treatment plant, 1809
- Project Dugout (Plowshare program):  
multiple row charge blast-wave observations at long range, 1798
- Project EOLE, see Satellites.
- Project Fire (flight reentry program):  
flight II, body motions and angles of attack during reentry, 18020
- Project Fire Scan, fire detection interim report, airborne infrared mapper used as tool in survey, 8106
- Project fog drops, investigation of warm fog properties and fog modification concepts, 6712
- Project Gemini (man-in-space program):  
earth photographs from Gemini missions, 12880  
Gemini IV mission, terrain photography, 11528  
manned space flight, NASA facts, 17949  
pictorial review, 1438
- Project Handcar (Plowshare program):  
strong motion and surface accelerations, 5782
- Project Head Start:  
beautiful junk, inexpensive materials for preschool program, 17709  
child development programs—  
how to apply, instructions, 6163  
manual of policies, and instructions, 16483  
community action program, child development center, points for parents, 10912  
daily program for child development center, manual for teachers, 15204  
fact sheet, 6166  
health services, guide for project directors and health personnel, 12450  
how you can help, 10911  
newsletter, 3392  
physician and Project Head Start, 6165  
series, 10911-912, 12450, 15204
- Project Hindsight, 1st interim report, summary, 7857
- Project LITE (legal information through electronics):  
Air Force management, hearing, 15034
- Project Mercury (man-in-space program):  
aerodynamic heating of afterbody, flight test data compared with prediction methods, 14372

- Project Mercury—Continued
  - environmental control system, technical history, 18009
  - manned space flight—
    - history, 8438
    - NASA facts, 17949
    - second mission, description, etc., 6865
- Project moneywise, role of credit unions in war on poverty, 9451
- Project Moon-Blink, general information, 1429
- Project Palanquin (Plowshare program) :
  - apparent crater studies, 4237
- Project Pre-Gondola (field cratering experiment) :
  - clouds, lidar observations, final report, 17397
  - preshot geophysical measurements, 15962
  - structures instrumentation, 17396
- Project Pre-Schooner (field cratering experiment) :
  - apparent-crater studies, final report, 13342
  - concrete stem for access hole, design, construction, and postshot evaluation, 17395
  - geologic and engineering properties investigations, final report, 17394
  - technical director's summary report, 5781
- Project Sealab (man-in-the-sea program) :
  - 45-day undersea saturation dive, report, 11669
- Project Sedan (Plowshare program) :
  - fallout from deeply buried nuclear detonation and aerial radiometric survey, 7426
- Project Seesaw, beginning for rural disadvantaged in Louisiana, 8284
- Project Stormfury, ESSA fact sheet, 16538
- Project Sulky (Plowshare program) :
  - crater measurements, 4236
  - scientific photography, 4235
- Project Surveyor (unmanned lunar exploration) :
  - program, failure reporting and management techniques, 14406
  - Surveyor, NASA facts, 17950
  - Surveyor III, preliminary report, 14403
- Project Tech Top, lunar, planetary, and solar topography, study, 5163
- Projectiles :
  - cratering in low-density targets, 11420
  - flight characteristics, design for control, engineering design handbook, 1751
  - impact sensitivity of explosives, study, 14343
  - penetration of high speed particles, multivariable analysis of mechanics, 6708
  - size effects on hypervelocity impact craters in aluminum, 14468
- Projection screens, *see* Screens (projection).
- Prok, George M., estimation of electron cross sections for molecular hydrogen, 11546
- Prokopius, Paul R., dynamics of water rejection from hydrogen-oxygen fuel cell to hydrogen stream, 18031
- Prolate spheroids, *see* Spheroids.
- Promise of New Asia, 2880
- Promoting worker interest, 9704
- Promotions :
  - Armed Forces medical and dental officers, provide opportunities, report, 14943
  - Army, enlisted promotion system, pamphlet, 10266
  - personnel promotion system of Post Office Department hearing, 10669
  - women in Armed Forces, remove restrictions—
    - hearing, 9148
    - report, 10565
- Proofreaders :
  - printer, examination announcement, amdt., 204
  - printer-proofreader, examination announcement, amendment, 13437
- Propaganda, *see* Communism.
- Propagation :
  - combined propagation of unicellular algae and bacteria, Hungarian study, 12691
  - radio waves—
    - antipodal region of radios station NPM, Hawaii, airborne field measurements, results, 5345
    - 5GHz in Europe, comparison of predictions and measurements for various types of paths, 6223
    - line of sight UHF/SHF, deep and/or rapid fading phenomena aspects, 6225
    - long and superlong, in earth-ionosphere waveguide channel, 17873
  - USSR papers, 4939
  - sonic-boom, effect of inversion waves, 9427
  - UHF waves in troposphere, 6508
  - waves of finite amplitude in thermoviscous media, 1434
- Propagation of sound, *see* Sound.
- Propanes, fog dispersal experiments, Walla Walla, Wash., 11984
- Propellant gages, *see* Radiotracer propellant gages.
- Propellant tanks, *see* Tanks.
- Propellants :
  - cold solid propellant rocket motor as stop-restart capability, 6830
  - dynamics in large rocket booster, orbital investigation, 11517
  - feed system coupling, effect on analysis of chugging, 11491
  - gas chromatographic column enables analysis of propellant hydrazines, 2681
  - high energy, bibliography, 11431
  - liquid—
    - factors influencing heat transfer to rocket-thrust-chamber coolant channels, 1484
    - reorientation, experimental investigation, 5261
  - multistage liquid-propellant launch vehicle response to longitudinal excitation, 11522
  - rocket, thixotropic gels, study, 10005, 11679
  - solid—
    - medium temperature, vortex valve study, 2651
    - proportional secondary injection thrust vector control study, 2604
    - rocket motor performance computer programs using group transformation method, 1483
    - rocket motors, structural dynamics, 2611
    - transverse-mode combustion instability in vortex burner, experimental investigation, 1511
    - storable-propellant rocket engines, ablative-material thrust chambers as components, evaluation, 15555
    - subliming-solid-propellant thruster systems for attitude control of spacecraft, performance, 6884
    - vaporization, frequency response characteristics, analysis, 5235
- see also* Fuel.
- Propellers :
  - aircraft—
    - current industrial reports, 15990
    - left- and right-hand rotation, on large semispan tilting wing, aerodynamic data, 6855
    - single, on large semispan tilting wing, aerodynamic data, 9879
    - type certificate data sheets and specifications, 3017
  - airworthiness standards, Federal aviation regulations, 9442
  - ducted, 7-foot-diameter, wind-tunnel investigation, 15573
  - propeller-rotor whirl flutter, review, 12971
- Property, rental, District of Columbia, used for residential purposes, require publication of owners' names, hearings, 2113

Property—Continued  
 see also Enemy property—Personal property—Public property—Real estate—Sales—Surplus property.

Property rights:  
 family and property law, summary—  
 New Jersey, 10138  
 New York, 10139  
 Ohio, 13187

Prophylaxis:  
 and treatment of radiation illness, problems, Rumanian study, 4931  
 poisoning of white rats with sarin, Bulgarian study, 6544  
 poliomyelitis, USSR study, 1266  
 principle, in health protection in Rumania, 1160  
 vibration diseases, USSR study, 11265

Prophylaxis pastes, see Dentrifices.

Proportional counter tubes, see Proportional counters.

Proportional counters:  
 aluminumized thin-window proportional-counter tube is stronger, more responsive in long wavelength region, 8451  
 Halpern-type neutron detector, study, 11592

Propulsion:  
 Aerobee 150 propulsion failure, causes, etc., 6851  
 and power production, French frigate Suffren, 9670  
 nuclear, cooldown characteristics of regenerative nozzle used in cold-flow rocket test facility, 11500  
 ships, magnetohydrodynamic prospects, USSR study, 14256  
 system, integration with airframe for Mach 6 cruise vehicles, 18010

Prose, poetry, and black power, 9407

Prospecting:  
 contributions to geochemical prospecting for minerals (series), 4886  
 suggestions for prospectors, techniques, etc., 9575

Prospector, cowhand, and sodbuster, historic places associated with mining, etc., in Trans-Mississippi West, 13008

Prosperity:  
 and prices (remarks), 235  
 challenges in sustaining prosperity, seminar on manpower policy and program, 5041  
 in times of prosperity, Good Lord, preserve us (remarks), 17269

Prostheses:  
 immediate postsurgical prosthetics in management of lower extremity amputees, 13171  
 prosthetics research, bulletin, 11889, 18246  
 prosthetist examination announcement, 17455  
 Veterans Administration work, hearings, 10681

Prosthesis, Orthopedics, and Traumatology imeni M.I. Sitenko, Khar'kov Scientific Research Institute of see Khar'kov Scientific Research Institute of Prosthesis, Orthopedics and Traumatology imeni M.I. Sitenko.

Prosthetic and Sensory Aids Service, Veterans Admin., work, hearings, 10681

Prosthetics, see Prostheses.

Prostka, Harold J., igneous geology of Dry Mountain quadrangle, Jefferson County, Mont., 2358

Protecting Ag pilot, 140

Protective clothing, see Clothing.

Protective coatings, see Coating materials.

Protective equipment, see Safety equipment and appliances.

Protective shelters:  
 Adirondack-type, building plan, 10186  
 fallout shelters—  
 architectural design, shielding requirements, influence on form, 8981  
 architectural, engineering, and consulting firms with certified analysts, directory, 13424  
 community development and civil defense, technical report, 16059  
 community planning, seminar and workshop, guide, 14843  
 dual-purpose designs receiving awards in Brooklyn competition, 7529  
 for homes with basements, handbook, 13425  
 how are labor union members affected?, 4383  
 HUD aids, 12625  
 improving protection in home basements, evaluating techniques, 5765  
 in schools, civil defense program materials, 16052  
 management handbook, 5916  
 national design competition, community center, awards, 16060  
 national survey program, joint civil defense support group, phase I survey instructions, 15226  
 new buildings, civil defense program materials, 17451  
 new buildings, designing, manual for architects, 7530  
 nuclear defense design for architects and engineers, courses, announcement, 16053  
 policy resolutions of AFL-CIO, 1903, 17452  
 programmed orientation to civil defense, 15430  
 radiation shielding, design and analysis, 14847  
 shelter management, textbooks, 16057  
 3-bedroom rural dwelling, building plan, 13232  
 field CBR collective protection, Army technical manual, 5740  
 maintenance of civil defense shelters, USSR study, 12756  
 personal and family preparedness for survival, 1905

Proteins:  
 concentration level related to parotid fluid flow rate, 10239  
 contractile muscle proteins, USSR studies, 15346  
 egg white, heat stability under minimal conditions that kill salmonellae, 11918  
 fish concentrate, experiment and demonstration plant, law, 415  
 globular structure, data from X-ray structural crystallography, USSR study, 12726  
 human serum protein concentration, estimation of change during simulated altitude and aerospace flights, 7342  
 intake effects on nitrogen retention and growth of cattle, 1723  
 mathematical methods in interpreting and evaluating proteinogram and their practical significance, USSR study, 12694  
 milk, dye-binding evaluation method, 4152  
 myofibrillary, functional role of subfractions, USSR study, 14228  
 nerve fiber proteins (neuroaxial), USSR biochemical and histochemical studies in experimental allergic demyelinating encephalomyelitis, 14213  
 parotid fluid, flow rate effect on level, 7363  
 phosphoproteins, metabolism in experimental atherosclerosis of liver, USSR study, 1275  
 protein nutrition, biochemistry, USSR book review, 15405



# INDEX 1967

**Proteins—Continued**  
 water-soluble protein fraction of human brain, spectral characteristics, USSR study, 12707

**Prothrombin**, quality control in conglutination procedures in 1-stage prothrombin time, 17358

**Protons:**  
 and space travel, introduction, 1731  
 bombardment, high-purity, single-crystal silicon, 11534  
 chemical displacement in double-bond, rule for estimating, 12727  
 effects on primates, 4179  
 low energy, trapped radiation environment models, 16929  
 space environment, biological effects, estimate, 4176  
 stopping power and range tables, 5192

**Protozoa**, subject catalogue, 15  
*see also* Gymnodinium breve.

**Providence, R.I.**, area wage survey, 14290

**Providence County, R.I.**, bedrock geology of Chepachet quadrangle, 16685

**Proving grounds**, Bahamas long range, agreement with United Kingdom, 17241

**Provost marshal**, Union Army papers, pamphlet to accompany microcopy relating to individual civilians, 18061

**Provus, Malcolm**, staffing for better schools, 16511

**Prowers County, Colo.**, soil survey report, 17137

**Prunes:**  
 dried, canned, U.S. standards for grades, 13891  
 industry of France, 12565  
 production, use, value, 1963-66, by States, 14695

**Pruning:**  
 open-grown black cherry, 17803  
 root pruning of mahogany nursery stock, 12572  
 special pole pruner cuts branchlets from tree tops, by helicopter, 11123  
 teak, effects, 12576

**Pryor, William H., jr.:**  
 effect of nitrogen dioxide-nitrogen tetroxide on oxyhemoglobin dissociation, 13270  
 gamma radiation LD 50(30) for rabbit, 17347

**Przedpelski, Zygmunt J.**, lift fan technology studies, 11402

**PSAC**, *see* President's Science Advisory Committee.

**Psammocora contigua**, *see* Corals.

**Pseudatteria**, *see* Microlepid pters.

**Pseudophilomedidae**, *see* Crustaceans.

**Pseudotsuga macrocarpa**, *see* Fir.

**Psolid holothurian genus** *Lissothuria*, 8550

**Psoriasis**, description, symptoms, etc., 14627

**Psychiatric clinics**, *see* Clinics.

**Psychiatric nurses**, *see* Nurses and nursing.

**Psychiatrists**, jobs and mentally restored, memo, 5051

**Psychiatry:**  
 development in Tadzhikistan, 4983  
 geographic and astronomic distance responses by rated officers in mental status examination, 4174  
 nursing, institutions offering trainee stipends for graduate and undergraduate education, 11760  
 rating scales handbook, 1573

**Psychical research**, *see* Extrasensory perception.

**Psychoacoustics**, table of intensity increments, 136

**Psychoactive agents**, *see* Psychotropic drugs.

**Psychochemical warfare**, *see* Chemical warfare.

**Psychologists:**  
 clinical, counseling, etc., examination announcement, 12113

**Psychologists—Continued**  
 psychologists in mental health, 1964 survey, 5458  
 research, examination announcements, 200, 16071

**Psychology:**  
 and the theory of learning, USSR study, 14268  
 aspects of 20 days in full pressure suits, 20 days at 27,000 ft. on 100% oxygen and 34 days of confinement, 6723  
 bibliography, Air Force Academy Library, 10206  
 careers in Veterans Administration, examination announcement, 12113  
 effect of variables on job satisfaction and intent to re-list, 7370  
 experimental research, USSR study, 16783  
 PACAF basic bibliographies, 11950  
 philosophical development of theories, USSR study, 5024  
 sets and cybernetics, USSR study, 8264  
 wonder and mystery of psychics, USSR study, 6328  
*see also* Parapsychology.

**Psychomotor tests**, *see* Mental tests.

**Psychopharmacology:**  
 abstracts, 3780  
 animal research, handbooks, index, 7083  
 bulletins, 1588, 8641, 17161  
 Czechoslovakia, recent research, 16774

**Psychophysiology:**  
 psychophysiological analysis of labor activity, USSR study, 11260  
 space, effect of high and low afferentation on human organism, USSR studies, 1345

**Psychotics**, *see* Mentally ill.

**Psychotronics**, Trojan horse of irrationality, USSR, 11259

**Psychotropic drugs:**  
 and related compounds, tabulation, 11752  
 ethnopharmacologic search for psychoactive drugs, symposium, proceedings, 17173

**Pterophyllum**, *see* Angelfish.

**Public administration**, executive development programs in public service, university-sponsored, 2193

**Public affairs**, *see* Public information.

**Public assistance:**  
 aid to families with children in Cleveland and Cuyahoga County, Ohio, study, 4386  
 aid to families with dependent children—in Gary, Ind., 13435  
 protective payments, report, 9060  
 California welfare recipients, nursing home care, etc., GAO report, 2354  
 caaeoads, impact of training programs under Manpower development and training act and Area redevelopment act, and public assistance work and training programs, 3406  
 cases, reasons for opening and closing, 7911, 13996  
 costs of State and local administration, services, and training, 15233, 16541  
 costs per case month, 1966, for administration, services, and training, 13995  
 Federal assistance programs, catalog, 12447  
 health services, coordinated funding, in projects receiving or eligible for assistance under programs of HEW and OEO, 13938  
 limiting money payments to recipients, State maximums and other methods, 18205  
 medical care—  
 paid through payments to vendors, utilization, 10974  
 vendor payments by type of service, 10971  
 vendor payments, recipients, 16542  
 vendor payments, recipients and amounts, 13997



Public assistance—Continued  
 program under social security, amend act,  
 hearings, 7763, 10684  
 source of funds expended for payments,  
 9436, 16543  
 source of funds expended for payments  
 and cost of administration, services,  
 and training, 4752  
 special types, money payments to recipi-  
 ents, 4751  
 State agencies be required to make needed  
 changes, message from the President,  
 12198  
 State-Federal programs, improvement, so-  
 cial security amendments of 1967—  
 hearings, 15154, 16409  
 reports, 14953, 14964  
 summary, 15053  
 State salary ranges of positions in public  
 welfare, 4898, 11194  
 statistics, monthly advance release, 2988  
 unemployed-parent segment of aid to fam-  
 ilies of dependent children, 3988  
 welfare in review (periodical), 4061  
 statistical supplement, 5596  
 welfare programs and services, facts, 7234  
 work and training programs, impact on  
 caseloads, 3406  
*see also* Social work and problems.  
 Public Broadcasting Corporation:  
 establish—  
 hearings, 13710  
 reports, 10756, 14980  
 Public buildings:  
 accessibility to physically handicapped, in-  
 sure—  
 hearing, 15173  
 report, 15124  
 act of 1959, amend—  
 hearing, 960  
 reports, 627, 931  
 Federal, disaster control and civil defense,  
 change, 14613  
 foundations, subsurface exploration for  
 and design and construction, GAO re-  
 view, 11156  
 Government leased, construction, modifica-  
 tion, etc., to comply with provisions of  
 Davis-Bacon act, hearing, 17674  
 painting contracts on Federal facilities in  
 Washington area, irregularities in per-  
 formance, hearing, 15033  
 Public Buildings Service:  
 inspection controls over concrete place-  
 ments in building construction projects,  
 GAO review, 11153  
 subsurface exploration for and design and  
 construction of foundations for public  
 buildings, GAO review, 11156  
 Public contracts, *see* Government contracts.  
 Public debt:  
 Federal debt management (remarks), 2951  
 increase in ceiling—  
 hearings, 6049, 6097, 10685, 12407  
 laws, 9033, 13526  
 Public law 89-49, legislative history,  
 2063  
 public law 89-472, legislative history,  
 2063  
 public laws 90-3 and 90-39, legislative  
 histories, 15031  
 reports, 6003, 6008, 6086, 9081, 10621,  
 12249, 12273, 13636, 13799  
 Treasury Department circulars, 2948,  
 5370, 7208, 8773, 13167-169  
 Public Debt Bureau, appropriations, 1968,  
 additional, amendment, proposal, 10695  
 Public Documents Division:  
 classified list of Government publications,  
 17131  
 price lists, 1564, 2800-4, 5413-19, 7052-  
 58, 8623, 10037-41, 11712-713, 15669-  
 672, 17132-136, 18149-151

Public domain, *see* Public lands.  
 Public education, *see* Education.  
 Public employment, *see* Employment.  
 Public facilities:  
 State and local needs and financing, study,  
 1977  
 print additional copies, reports, 6082,  
 10586  
 Public health, *see* Health—Public Health  
 Service.  
 Public health advisors, program of PHS,  
 10064  
 Public health analysts, program of PHS,  
 10064  
 Public health nurses, *see* Nurses and nursing.  
 Public health schools offering nurse trainee-  
 ships for full-time academic study, 5464,  
 15710  
 Public Health Service:  
 act, amend—  
 hearings, 12305, 17670  
 laws, 461, 463  
 reports, 16230, 16247  
 advisors and analysts program, 10064  
 air pollution courses, 2806  
 appropriations, 1967, supplemental, hear-  
 ings, 2040  
 appropriations, 1968—  
 amendments, 10517  
 hearings, 10631  
 law, 12170  
 report, 10766  
 career opportunities—  
 general information, 11721  
 pharmacist, 15676  
 physical therapist, 18155  
 scientists, 8652  
 veterinarian, 18156  
 careers in nursing, 10042  
 CCPM pamphlet, 10043  
 commissioned officer student training and  
 extern program, 10043  
 conference, of Surgeon General, with State  
 and territorial mental health authorities,  
 proceedings, 5457  
 construction grant programs, labor stand-  
 ards provisions, 8637  
 cooperative studies, renal disease and hy-  
 pertension, conferences, proceedings,  
 17160  
 coordinated home care programs, develop-  
 ment and administration, guide, 5432  
 COD, commissioned officer residency  
 deferment program, 8626  
 Environmental Engineering and Food  
 Protection Division, research grants,  
 5463  
 fellowships, nurse, special research, 15711  
 film catalog, 17045  
 grade A pasteurized milk ordinance, 1963  
 recommendations, 14624  
 grants and awards, 1966 funds—  
 construction of facilities, 11755  
 health services, formula, project,  
 regional medical planning, etc., 8644  
 mental health research, 14630  
 mental health training, 14631  
 research, 7085-86  
 summary tables and graphic highlights,  
 15706  
 grants for health services made to Wash-  
 ington State, financial administration,  
 GAO review, 14160  
 grants for research projects, policy state-  
 ment, 11756  
 grants for training projects, policy state-  
 ment, 13091  
 group life insurance program, annual re-  
 port, 5778  
 health information leaflets and pamphlets,  
 list, 18171  
 health research facilities, construction pro-  
 gram, Surgeon General's report, 524,  
 12207

# INDEX 1967

## Public Health Service—Continued

hospitals—  
 dental internships, 15679  
 diagnostic and demographic data of patients discharged, statistical summary, 8629  
 pharmacy residencies, 13087  
 Indian and Alaska native health program, nurses, examination announcement, 10436  
 Indian health program, report to the first Americans, 11761  
 information submitted on public health personnel, 10059  
 management intern program, 10065  
 medical care responsibilities, legal aspects, 1582  
 nurses in Indian health program, examination announcement, discontinuance notice, 10423  
 public advisory groups—  
 authority, structure, functions, 2831, 11750  
 roster of members, 8650  
 public health laws, compilation, 4547  
 publications, 1581, 11741, 17153  
 regulations on biological products, etc., 11720  
 research grant projects, accident prevention, references to publications, 8645  
 research grants index, 8647  
 research grants of NIH, administration, report, 17575  
 residencies for physicians, general information, 8648  
 senior clinical traineeships, cancer control, 14618  
 technical information bulletin, 17164  
 traineeship program—  
 professional health personnel, 15713  
 professional nurse full-time academic study, 5464, 15710  
 professional nurse short-term courses, 8653, 17162  
 training grants, traineeships, fellowships, etc., 7086  
 uniformed services, joint travel regulations, 3455  
 Public Housing Administration, local authorities participating in low-rent programs, 3520  
 Public information:  
 act, effect on member banks, 14042  
 availability from executive departments and agencies, Attorney General's memorandum on public information section of administrative procedure act, 12762  
 catalog of current information materials, Armed Forces Information and Education, 7374  
 clarify and protect right of public, codify provisions of Public law 89-487—  
 law, 12165  
 reports, 7707, 10780  
 Federal Reserve System Board of Governors, rules regarding availability, 14047  
 legislative, mechanization of USAEC library, 5790  
 Navy Department, direction for commanders and public information officers, 3209  
 news policies in Vietnam, hearings, 953  
 newsmen's privilege, 2129  
 photographic manual, Naval Air Systems Command, 2763  
 Post Office Department, PI series, 1559, 2791, 13056, 17119  
 public affairs handbooks for—  
 community action agencies, 13940  
 Navy chaplains, 13028  
*see also* Public relations.  
 Public Land Law Review Commission:  
 appropriations, 1968—  
 hearings, 7734  
 law, 12170  
 reports, 10560, 10766, 12252

Public Land Law Review Commission—Con.  
 extend, and increase authorization—  
 hearings, 15040  
 report, 14970  
 Public lands:  
 Agriculture Dept. jurisdiction, cash equalization of exchanges, report, 2084  
 appeals, Interior Department decisions, 3429  
 camping on public lands, State sites, facilities, etc., 8328  
 classify for disposal or interim management under multiple use principles, law implement, hearing, 10853  
 code of Federal regulations, 12527  
 forested lands of Pacific Northwest, development (remarks), 8210  
 geothermal steam deposits, disposition, hearings, 4546, 12411, 15037  
 how to buy, 15456  
 Interior Department decisions, 3426  
 land exchange in national forest system, 17329  
 National Advisory Board Council, proceedings, 27th annual meeting, 12778  
 Nevada and Oregon, grazing reserve for Indians of Fort McDermitt, Nev.—  
 law, 17552  
 report, 15112  
 our public lands (periodical), 3663  
 public domain, its place in our history, etc., 2525  
 sale, temporary authority, law, implement, hearing, 10853  
 statistics, 9748  
 Taylor grazing act, amend to clarify exchange authority, report, 875  
 what are public lands?, 8327  
*see also* names of States, etc., where lands are located.  
 Public law 480, *see* Agricultural trade development and assistance act of 1954.  
 Public laws, *see* Law.  
 Public library program amendments of 1966, 1135  
 Public management, *see* Administrative management.  
 Public Management, National Commission on, *see* National Commission on Public Management.  
 Public papers of Presidents of United States, 1059, 2256, 4780  
 announcement and order form, 8622  
 Public participation in processes of Government, 10523  
 Public policy:  
 implications of investment company growth, report, 2035  
 science, Government, and public policy Government-science relationships during 89th Congress, 13716  
 Public Printer, *see* Government Printing Office.  
 Public printing and binding:  
 Federal printing program, report on study directed by Joint Committee on Printing, 10688  
 procurement of printing of technical manuals from equipment contractors, GAO report, 2345  
 Public property:  
 administration, NASA regulations, 18058  
 administration of Government property by contractors, guidance, 16456  
 code of Federal regulations, 9481  
 Federal property and administrative services act, amend, report, 13794  
 maintenance of grounds, engineered performance standards, handbook, 11625  
 management, code of Federal regulations, 6288-90, 9478-80  
 transferred to other Government departments by RFC, payment in lieu of taxes, extend—  
 law, 13531  
 reports, 10606, 13793

Public regulation of business, Treasury view, 11884

Public relations, dissemination of information about the handicapped (remarks), 18140

Public roads, *see* Roads and highways.

Public Roads Bureau :  
annual report, 5474  
supplement, 7101  
director, nomination of Francis C. Turner, hearing, 7826

engineering opportunities for college student, bridge to your success in highway engineering training program, 1593

Federal-aid interstate highway frontage road near Billings, Mont., justification, GAO review, 2348

highway engineering training program, opportunities for young engineers, 18192

John Day River Bridge, interstate route 80N, Oregon, review of circumstances relating to collapse, GAO report, 4877  
press releases, 3756

professional highway engineer, opportunities, 18193

transfer—  
law, 389  
report, 906

Public safety, *see* Safety of life.

Public schools, *see* Schools.

Public Television Corporation, establish, hearings, 10824

Public utilities :  
Alaska earthquake, Mar. 27, 1964, effects on transportation, communications, and utilities (series), 6402, 12609  
holding companies, security transactions and holdings, 3653  
south-central Alaska, 1964 earthquake effects, 12609  
State utility commissions, summary and tabulation of information, 17655

Public welfare :  
agencies, information services, 10134  
code of Federal regulations, 7984  
community work and training program, message from the President, 7606  
departments, opportunities for volunteers, 13184  
extend certain programs, law, 13523  
intake and case recording, fact-finding report, Santa Clara County Welfare Department, San Jose, Calif., 10973  
national blueprint for, 4897  
personnel, 1965 statistics, 12483  
*see* Social work and problems.

Public works :  
appropriations, 1967—  
hearings, 939  
law, 403  
appropriations, 1968—  
hearings, 10634, 12287, 16393  
report, 13678  
authorization, 1966, rivers and harbors, flood control, etc.—  
law, 493  
report, 698  
code of Federal regulations, 9481  
economic development programs, status, etc.—  
reply of EDA to Subcommittees interim report, hearing, 12313  
report, 7682

EDA grants and loans for public works and development facilities, 7869, 13935

Engineers Corps, Army—  
civil functions, John Day River Bridge, Interstate route 80N, Oregon, review of circumstances relating to collapse, GAO report, 4877  
civil works activities, report 1966—  
departmental edition, 16518  
document edition, 16151

Public works—Continued

Engineers Corps Army—Continued

State-constructed Del Valley Dam and Reservoir, Alameda County, Calif., planned Federal contribution toward cost, GAO review, 6384

maltenance, engineered performance standards, 17067  
handbooks, 11625, 14567  
management, Navy, 2781

public works and economic development act of 1965—  
maximum grant rates in qualified areas, 4685, 15202  
project activity supplement, 6159  
title 5, amend—  
hearings, 13713  
law, 17548  
reports, 7788, 12359, 14957, 14974, 16265

Public Works Committee, House :  
calendar, 3483  
committee prints, 6041, 15048, 16340-341, 17611  
hearings, 750-751, 2055-56, 4558, 9168, 12311-314, 13713

Investigations and studies—  
authorization, report, 6023  
expenses, report, 9103  
legislative activities, 89th Congress, 6041  
reports, 627, 670, 4506, 7682, 9122, 13630, 14957, 14989, 16272-273, 16299, 17577  
travel authorization, report, 7717

Public Works Committee, Senate :  
additional staff and funds, authorization, reports, 4591, 4615  
calendar, 3501  
committee prints, 4658, 17675  
hearings, 960, 4657, 6125-26, 7825-27, 10871, 12426-427, 13856, 13883, 15153, 15173-174, 15176, 16433-435, 17673-674, 17676  
legislative activities and accomplishments, summary, 89th Congress, 4658  
reports, 883, 885-886, 931, 2095, 2100, 4591, 7788, 9297-98, 10726-727, 10732, 10769, 12359, 13821, 15124, 15126, 16377

Publications :  
criteria for evaluating scientists, quality and quantity, 1709  
Federal item identification guides for supply cataloging, supplements, 3292  
international exchange, convention concerning, report, 9188  
*see also* Government publications—*also* names of departments, etc., *leasing* publications—*also* subjects.

Publicity, prejudicial, affecting administrative procedure, amend act, hearings, 13871

Publishing, industry report, 3770

Puckett, H. B., automatic feeding equipment for livestock and poultry, 8830

Puddle Springs quadrangle, Wyo., geology, 12602

Puente, Floriberto S., relief, 12239, 12345, 13498

Puente, Julio M., motor carrier accident, 16872

Puerto-Cito Reservation, rural electric facility, dedication (remarks), 15875

Puerto Ricans, workers, impact of changing economy, statistics, 16831

Puerto Rico :  
agriculture departments, 1967 directory, 7836  
and other outlying areas, 1960-66, estimates of population, 5880  
climatological data, 3096  
coast pilot, 17467  
supplement, 7553  
coastal warning facilities chart, 11905  
commodity classification, reporting shipments to U.S., schedule P, 10386  
county business patterns, 5851, 13385

# INDEX 1967

## Puerto Rico—Continued

fertility and educational attainment, 15715  
50th anniversary of American citizenship, report, 9263  
nautical chart catalog, 4415  
nurses in public health, number, educational preparation, etc., 17155  
petroleum refineries, mineral industry survey, 15472  
plant regulatory officials, 5618  
political status—  
background studies, 2960  
report, 2959  
settlement, economic factors, 10690  
settlement, hearings, legal-constitutional factors, 763  
settlement, hearings, social-cultural factors, 2068  
schistosomiasis, prevalence, skin test survey, 8654  
soil survey laboratory data and descriptions, 14661  
stratigraphy, Cretaceous and lower Tertiary, in west-central area, 17820  
U.S. Army, Southern Command, personnel ordered to helpful hints, DA pamphlet, 17384  
U.S. trade, monthly report, 3359  
weather in Luquillo Mountains, 14130  
Puget Sound Naval Shipyard, certain employees, relief, 824, 9223, 13496, 13565  
Puget Sound Plywood, Inc., relief, 602, 771, 7660, 9226  
Pugwash conference, 16th, report, 1234  
Pulaski, County Ark., water resources, 8181  
Pullets, *see* Chickens.  
Pullman Company, 1965 transport statistics, 8236  
Pulmonary diseases research conference, phatic absorption of radioactive albumin from lungs, 13269  
Pulmonary diseases research conference, transactions, 13172  
Pulp:  
current industrial reports, 3169, 8944  
industry industrial plant equipment handbook, 4675  
industry report, 3788  
Pulp wood, *see* Wood pulp.  
Pulpboard:  
current industrial reports, 3169  
hardboard, standard of trade, 12978  
particleboard, current industrial reports, 5870, 12077  
wood-base fiber and particle panel materials, thermal conductivity, 14124  
Pulpwood, *see* Wood pulp.  
Pulse analyzers, multichannel height, inexpensive, features low power requirements, 15536  
Pulse autocorrelator electronic system, accurately determines laser measurements, 16968  
Pulse generators, using transistors and silicon controlled rectifiers produces high current pulses with fast rise and fall, 1455  
Pulse modulators:  
circuit multiplies width modulation, etc., 9823  
laboratory uses minority carrier storage diodes, 14428  
Pulsed reactors, *see* Reactors (atomic).  
Pulses:  
amplitude, boosted with one transistor circuit, 1464  
high interval stability, electronic circuit delivers, 2636  
neutron pulse propagation techniques, symposium proceedings, 12003  
output timing errors, modified univibrator compensates, 12834  
radar, coding system for clutter suppression, analysis, 10018, 14596  
short-pulse techniques, 9996

## Pulses—Continued

stretcher has improved dynamic range and linearity, 5148  
technique provides more accurate check-out of exploding bridge wire device, 2672  
Pulses (seeds):  
dried, foreign agriculture circulars, 3345  
Pulverizing lignite in ball mill, 15476  
Pumice, minerals yearbook chapter, 1407  
Pumped storage for hydroelectric power, selected list of references, 14707  
Pumping machinery, *see* Pumps.  
Pumps:  
axial-flow, 2-stage, with tandem-row inlet stage, blade-element performance, 11513  
centrifugal, method of rating, military standard, 13924  
coal-fired water pump, 1408  
current industrial reports, 437, 17434  
farm, current industrial reports, 3169, 4327, 15996  
Federal item identification guides for supply cataloging, supplements, 3288  
inducer, hubless, performance in water and liquid nitrogen, 6860  
oil-well rotary, deposition in, of barium sulfate from sea water, 11386  
oscillations, reduced by negative feedback system, 8473A  
pump and reeled hose system for studying vertical distribution of small Plankton, evaluation, 14065  
simple, maintains liquid helium level in cryostat, 8465  
single-phase induction electromagnetic pump, 9909  
water, electric, on farm, 10176  
Punched card systems, coding and key-punching, geological information form for core, grab, and dredge samples instructions, 6997  
Punched tape, tester automatically checks paper tape punch and reader after maintenance, 15537  
Punishment, *see* Imprisonment.  
Punnett, Elleen L., relief, 9255  
Punta del Este, Uruguay:  
commitment for progress, the Americas plan for decade of urgency, declaration of Presidents of America, 11828  
Latin American summit conference—  
support historic new phase of alliance for progress—  
hearings, 7747, 7807  
reports, 7715, 9098  
understandings on behalf of U.S., recommendations, message from the President, 7610  
welcoming, etc., report, 10728  
Pupils (students), *see* Students.  
Purcell, Ganson, Jr., blood clotting studies in submarine crew, 12790  
Purchasing:  
Agricultural Stabilization and Conservation Service, reports, 3789  
buyer's assumption of risk in international sales, Bulgarian discussion, 5013  
consumer buying indicators, series, 1878, 5884, 14832, 16027  
could you use multimillion dollar customer? VA invites you to submit your product or service, 2965  
dairy products under price support program, 1965-66 marketing year, 21  
Federal Aviation Administration, procurements in Pacific region, GAO review, 11155  
fish and shellfish, buying guide, 15257  
food, how to use USDA grades in buying, 5671  
Government guide for businessmen, 1104  
instant nonfat dry milk, how to buy, 15855  
national forest timber, 11103  
surplus personal property, how to buy from Defense Dept., 10897

- Purchasing agents, buyers, pay, national survey, 2507
- Purification of boron, *see* Boron.
- Purification of tungsten hexachloride, 14341
- Purification train produces ultrapure hydrogen gas, 9842
- Pushchino-on-the-Oka, Russian Soviet Federated Socialist Republic, automatic analysis of microscopic objects, conference, 1219
- Puthoff, Richard L., design study of regeneratively cooled nozzle for tungsten water-moderated nuclear rocket system, 2729
- Putnam, John F., standard terminology for instruction in school systems, 10942
- Putnam, Lawrence E.:  
effects of aft-fuselage-mounted nacelles on subsonic longitudinal aerodynamic characteristics of twin-turbojet airplane, 2730  
effects of probe antennas on aerodynamic characteristics of Apollo spacecraft, 12948  
hypersonic aerodynamic characteristics of wing-body configurations with canard controls, 2707
- Putzel, Henry, Jr.:  
official reports of Supreme Court, United States, preliminary print, 3632  
United States reports, cases adjudged in Supreme Court, 1645, 2941, 7201
- Puzak, P. P., metallurgical characteristics of high strength structural materials, 10014
- Pyelonephritis, Public Health Service cooperative studies, conferences, proceedings, 17160.
- Pynnönen, Reino O., analysis of recent fatal accidents with front-end loaders, 16856
- Pyorrhea, *see* Periodontal disease.
- Pyraustidae, *see* Moths.
- Pyrethrum:  
synergized—  
evaluation as protectant against insects in sorghum grain, in small bins, 11933  
shelled corn protectant against insects in small bins, 36
- Pyridoxine, methionine-pyridoxine mixture, response of individuals to airsickness, 77
- Pyrites, minerals yearbook chapter, 6692
- Pyroelectric detection techniques and materials, research program, 5159
- Pyroelectric radiation detectors, *see* Radiation detection instruments.
- Pyrolysis, wood, alpha-cellulose, and lignin, effect of inorganic salts, determined by dynamic thermogravimetry, 8103
- Pyrometers:  
obtaining surface temperatures of materials in presence of extraneous radiation, 16975  
radiometer-pyrometer, tech brief, 6769  
self balancing line-reversal, automatically measures gas temperatures, 15538
- Pyrometry, surface temperature measurements of opaque materials, 2649
- Pyrotechnics:  
military pyrotechnics series, engineering design handbooks—  
bibliography, 1750  
theory and application, 10252
- Pyruvates, anesthetized dog, hydrazine effect, 7359
- Q
- Qatar, foreign trade regulations, of Arabian Gulf States, 17480
- Quadrature approximations, abscissas and weights for Gaussian quadrature, 5284
- Quaintance, Jean A., relief, 265
- Quaking aspen, *see* Aspen.
- Quality and pure price index, 8322
- Quality control:  
and reliability, handbook, 6154, 10902  
quality assurance program, storage/maintenance of industrial plant equipment, 13912
- Quality control—Continued  
substance, quality assurance information handbook, 10887  
*see also* subjects.
- Quantitative analysis:  
atomic absorption spectrophotometry, modified method for determining uranium isotopes, 14368  
cesium-137 in irradiated nuclear fuel separation technique provides rapid quantitative determination, 12845  
production growth in Poland, 6482  
quantitative methods in sociology, USSR study, 12678  
quantitative methods of management, 11591
- Quantum effects in information transmission systems, 18057
- Quantum generators, *see* Lasers.
- Quantum mechanical study of molecules, 5181
- Quantum mechanics:  
Brownian motion as route to statistical mechanics and to quantum communication theory, 8597  
calculations of 2d virial coefficients for hydrogen, 8527
- Quarantine, plant, guard against pests for beautiful America, 1713  
*see also* subjects.
- Quarterly:  
NOTE:—For all publications which begin with the word "Quarterly", *see* subject, name of department, etc., issuing publication.
- Quarters:  
Military Academy, provide without charge to certain civilian instructors, etc.—  
law, 430  
report, 933
- Quartz:  
crystals detect gas contaminants during vacuum chamber evacuation, 14416  
latite, grades in compositionally zoned ash-flow sheet in southern Nevada, 1120  
radon gas, useful for medical purposes, safely fixed in quartz, 6695  
ternary diagrams of quartz-feldspar content of pegmatites in Colorado, 1111
- Quartz Creek mining district, composition of pegmatites, 1111
- Quasilinear differential equations, *see* Equations.
- Quate, Laurence W., revision of click beetles of genus *Melanotus* in America north of Mexico, 8545
- Quattlebaum, Charles, education and training enactments, 6121
- Queene Annes County, Md., soil survey report, 2874
- Queensland maple, *see* Maple.
- Quehanna pilot plant first generation process operations, 5777
- Questions and answers about eradicating hog cholera, 45
- Questions and answers, medical assistance, medicaid, 10972
- Questions and answers on Federal beautification and open-space land programs.
- Questions and answers on Golden Eagle passport and other Federal outdoor recreation fees, 7030
- Quick attach and release coupling assembly, self-aligning, self-sealing, 6789
- Quick facts on programs of Office of Economic Opportunity, 4693, 9384
- Quick look at hours worked under Fair labor standards act, as amended, 1966, 11898
- Quiet revolution, 12208, 12451
- Quigley, Herve C., flight and simulator study of directional augmentation criteria for STOL airplane, 9890
- Quigley, Kenneth L., look at black walnut timber resources and industries, 8121

Quilteute Indians, judgment funds, disposition, law, 378  
 Quimby, Freeman H., participation of Federal agencies in international scientific programs, 6044  
 Quinaces, growing, general information, 5634  
 Quinidine, prices, hearings, 16425  
 Quinalae, and quinaldine, prices, hearings, 16425  
 Quinn, Alonzo W., bedrock geology of Chepachet quadrangle, 16685

R

R.E.A., *see* Rural Electrification Administration.  
 R.N. Bert Dosh Lock, name, report, 885  
 Raabe, R. G., mineral industry of North Dakota, 8360  
 Raanen, Helen P., indexes to Oak Ridge National Laboratory master analytical manual, 7428  
 Rabbits:  
     brain, neuron differentiation, USSR cytochemical study, 14221  
     gamma radiation LD 50(30), 17347  
     processing plants, chemical compounds authorized for use under USDA inspection programs, lists, 10878, 16445  
     renal excretion of solutes in rabbits, effect of  $-70^{\circ}$  acceleration, 14776  
     spermatozoa, electronic method for counting and sizing, 11954  
 Rabin, William T., special benefits awarded to persons 72 years of age and older during last quarter of 1966, 10086  
 Race problems:  
     America's crucial lesson (address), 12463  
     civil rights act of 1964, title 6, open every door, goal for nursing homes, 13183  
     civil rights and race relations, seminar, 2579  
     compliance officer's manual, procedures under title 6, civil rights act of 1964, 1906  
     desegregation guidelines, do they go far enough?, 9398  
     equality in education, remarks, 1006  
     Federal role in urban affairs, hearings, 6111  
     help for ghetto (address), 2484  
     housing discrimination—  
         legal and moral implications (statement), 13057  
         Springfield-Holyoke-Chicopee metropolitan area, report, 4385  
     prohibit discrimination in housing, education, etc., report, 4498  
     prose, poetry and black power (address), 9407  
     public schools, racial isolation, Civil Rights Commission report, 5918  
         summary, 8982  
     questions and answers on race relations, guide, 10913  
     school desegregation—  
         education parks, appraisal of plans, 14850  
         educators must lead way (address), 1004  
         guidelines, hearings, 4548  
         nobody wanted, 15213  
         plans, revised statement of policies, 2190  
     policies and guidelines—  
         investigation, hearing, 752  
         select committee to study report, referring investigation to Judiciary Committee, 4559  
         progress and problems (address), 4718  
     schools can be desegregated, 14849  
     Southern schools, 1966-67, study, 13436  
     security, respect for the individual, and economic development to combat racial discrimination in city ghetto (remarks), 17841

Race problems—Continued  
     urban ghetto, VISTA serves, 6168  
     *see also* Discrimination in employment.  
 Racketeering:  
     labor, activities of Jack McCarthy, etc.,—  
         hearings, 2119  
         report, 10731  
 Radar:  
     continental defense system, phaseout of certain stations, agreement with Canada, 2932  
     data—  
         digital magnetic tape system for recording, 17096  
         thunderstorms circulations and turbulence studies, 10966  
     echoes, movement and predictability, 6220  
     errata, 10964  
     IFF, Hartlobe airborne dual antenna system Mark X (SIF) system, 8587  
     observation of planets, USSR study, 1242  
     optical radar measurement of atmosphere, 8420  
     publications, price list, 1562  
     pulse coding system for clutter suppression, analysis, 10018  
         addendum, 14596  
     radar in meteorology, USSR study, 8260  
     Randle Cliff radar digital range-measuring instrument, 18114  
     reflections, NRL terrain clutter study phase 1, 14591  
     rendezvous, advanced antenna techniques, study, 11403  
     weather radar manual—  
         fundamentals and applications, 17294  
         national network observing and reporting procedures, 17293  
     *see also* Doppler radar—Monopulse radar.  
 Radar display systems, weather radars & remote displays, Federal plan, 15232  
 Radar targets, ambiguity function independent of assumptions about bandwidth and carrier frequency, 8598  
 Radar tracking, meeting movements problem, USSR study, 15427  
 Radar, Charles A., colloidal asbestos fibrils as reinforcements for polymeric structures, 16914  
 Radial displacements, *see* Displacements.  
 Radial flow, *see* Flow.  
 Radial-flow fans, *see* Mechanical fans.  
 Radial furnace shows promise for growing straight boron carbide whiskers, 9836  
 Radial saws, *see* Saws.  
 Radiant energy, transport in nongray, non-scattering gases, approximation, 11544  
 Radiation:  
     biochemistry, role of Bulgarian scientists, 1159  
     biological effectiveness of various types, USSR study, 5032  
     biological effects, 5434  
     cloud cover and out-going, investigation with satellite Kosmos-122, USSR study, 2443  
     CN violet, behind shock waves in air contaminated with carbon-bearing compounds, analysis models, 9905  
     cosmic, investigation by artificial satellite Luna-10, USSR, 1282  
     counting technique allows density measurement of metals in extreme environments, 17922  
     cyclic incident, use for measuring absorbance and emittance, 6792  
     cylinder through plasma sheath, 5176  
     damage, pharmacology and clinical use of mercaptoamines, USSR study, 8242  
     design of shielded source for irradiation of natural animal populations, 1782  
     dose from accelerator-produced radiation, biological interpretation, symposium proceedings, 15960



Radiation—Continued  
effects—

film-boiling heat transfer from flat plate, 14453  
kinetic properties of thermal decomposition of  $\text{KMnO}_4$ , result of  $\text{CO}_2$  irradiation, 11570  
life processes, bibliography, indexes, 13343  
microbial flora surviving irradiation pasteurization of seafoods, 1800  
relay 1 experiment, 1482  
electron irradiation effects from 20 KeV to 1 MeV on polyethylene terephthalate capacitor-type meteoroid detector, 1491  
embrittlement of Army SM-1A reactor pressure vessel, projected estimates, neutron spectral effects, 1554  
Enrico Fermi reactor, use for irradiation testing, hearing, 1972  
environmental surveillance, 10048  
extraneous, obtaining surface temperatures of materials in its presence, 16975  
fallout radiation shielding, 14847  
food irradiation—  
checklist of cost considerations (address), 5807  
food products, installation for, USSR study, 9663  
preservation, developing technology (remarks), 4242  
preservation of food, conference, 13318  
preservation of fresh-water fish and inland fruits and vegetables, 1784  
preservation, symposium, 1783  
program, review, hearing, 1975  
selected products in Atomic Energy Commission's low-dose program, cost-benefit study, 10302  
6th annual AEC contractors' meeting, 5768  
hazards, guidance for control, in uranium mining, 17761  
high intensity—  
heat source capable of sustained operation, 5215  
radiation dosimetry measured with SEMIRAD (secondary-electron mixed-radiation dosimeters), 4219A  
irradiation—  
charge storage effects in mylar from electrons, 2610  
high-temperature, and carbonization of coal, products from, comparison, 2572  
tensile yield strength using least number of specimens, simplified method measures changes, 16879  
thyroid irradiation, pathological effects, 11629  
isotopes and radiation technology, quarterly technical progress review, 3449  
Japanese Association for Radiation Research on Polymers, annual report, 5758  
later somatic effects, 10308  
mass transfer by sublimation from snow-surface subjected to irradiation, 4198  
microbial inhibition systems employing radiation (MISER), 8908  
monitoring, programmed instruction book, 15973  
nuclear and X-ray, use in helicopter close-order formation keeping system, final report, 5771  
nuclear, used to investigate mechanisms of superconductivity, 9830  
optical radiations and water vapor, effect on trapping spectrum sulfide, 14455  
pasteurization—  
Gulf shellfish, 13341  
Pacific crab and flounder, 13348  
processed wood-plastic composites, industrial evaluation, 5780  
radiation heat transfer, heat-and mass-transfer characteristics of nuclear rocket employing, 14497

Radiation—Continued

radiation transport and biological effects, special sessions, proceedings, 13314  
reactions to bacterial antigens after irradiation, USSR study, 9665  
safe structures, construction investigated, USSR study, 6523  
safety considerations in preparation of license applications, 15957  
secondary, in radiographic inspection, method prevents, 17998  
sensitivity of structural steels, metallurgical variables as possible factors controlling, initial evaluations, 5357  
separation technique provides rapid quantitative determination of cesium-137 in irradiated nuclear fuel, 12845  
shielding—  
applied to nuclear defense planning, analysis and design principles, 4384  
from fallout gamma radiation, designing shelter in new buildings, 7530  
shipboard irradiator studies, annual report, 5791  
shock-layer, from molecular band systems in proposed planetary atmospheres, predictions, 6890  
situation, Beloyarskaya atomic electric power station area, USSR, 15406  
soft corpuscular study by lunar satellite Luna-10, USSR, 1263  
source arrangement for low-exposure-rate total-body irradiation facility for man, 13338  
space radiation biology, 10317  
space radiation equivalence for permanent damage to transistors, 14380  
spatial distribution of reactor radiation around horizontal channel of RA reactor, at Vinca, Yugoslavian study, 6479  
spatially extended sources, point-source detection system rejects target, 6784  
spectral energy distribution of unfiltered X-rays from 250 kV constant potential machine, 1789  
techniques, radiochemical analysis, 2746  
technology, basic studies, 8905  
technology, postharvest procedures as means of extending shelf life of fruits and vegetables, 5792  
TIROS VII data, synoptic world weather analysis, 12922  
transient, and conduction in slotted slab and hollow cylinder, 17941  
ultralow frequency, radiation at 2 conjugate points, USSR study, 4953  
your body and radiation, 7445  
see also Alpha particles—Beta rays—Black body—Bremsstrahlung radiation—Gamma rays—Heat transfer—Infrared rays—Ionizing radiation—Radiation detection instruments—Radioactivity—Spectra—Thermal radiation—Ultraviolet rays.  
Radiation biology, see Radiobiology.  
Radiation Center, Oregon State University, dedication (remarks), 17407  
Radiation detection instruments: pyroelectric detection techniques and materials, 5159  
scintillation survey meter, point source detection, 1787  
see also Dosimeters—Proportional counters.  
Radiation environment, see Environment.  
Radiation illness, prophylaxis and treatment, problems, Rumanian study, 4931  
Radiation monitoring:  
film badge services, standards of performance, 10047  
personal monitoring, comparison of thermoluminescent dosimetry systems with film badges, 8599



# INDEX 1967

- Radiation Physics Laboratory, National Bureau of Standards, general information, 2741
- Radiation sickness, *see* Radiation illness.
- Radiation target cans, irradiation capsule technology, developments, international symposium, 8903
- Radiative capture, *see* Neutron radiative capture.
- Radiators, cast-iron, standard of trade, 1524
- Radiators (aircraft):
  - diode-lens controlled waveguide slot radiators, feasibility study, 9812
  - finned, internally and externally, for Brayton cycles in space, exploratory study, 8405
  - multitube, centrally finned, potassium condensing radiator, experimental steady-state performance, 18052
  - straight-finned, weight optimization, design procedure, 6781
- Radicals, *see* Free radicals.
- Radio:
  - publications, price list, 1562
  - radio science (periodical), 3803
  - radio science, journal of research, National Bureau of Standards, 2736
  - world atlas of atmospheric radio refractivity, 4747
- Radio announcers, examination announcement, 7537
- Radio apparatus and appliances:
  - AN/GRC-27A radio, electronics technician trainee's guide, 1666
  - AN/SRC-20, AN/SRC-21 radio sets, electronics technicians trainee's guide, 8582
  - commercial two-way equipment, savings available by purchasing rather than leasing, Defense Dept., GAO report, 4882
  - see also* name of apparatus or appliance.
- Radio astronomy, radiometric boresighting by sequential lobing, 18055
- Radio broadcast technicians, examination announcement, 7537
- Radio broadcasting:
  - agreement with Mexico, 11852
  - applications, FCC, 3269
  - broadcast actions, reports, 3269
  - call signs, new or modified, FCC reports, 3269
  - emergency broadcast system, basic plan, 14016, 17450
  - experimental auxiliary, and special services, FCC rules and regulations, 3273
  - facilities, agreement with Philippines, 1638
  - public broadcasting act of 1967—
    - hearings, 10824, 13710
    - reports, 10756, 14980, 16245
  - services, FCC rules and regulations, 3273
  - Soviet materials on arms control and disarmament (periodical), 3888
  - weather aids—
    - Atlantic and Mediterranean area, 1540, 9975, 14581
    - Pacific and Indian Oceans area, 2772, 8573, 11648, 17076
  - see also* Radio stations.
- Radio chemistry, *see* Radiochemistry.
- Radio communication:
  - amateur radio service, FCC rules and regulations, 3276, 4761
  - amateur stations, communications on behalf of 3d parties, agreement with—
    - Argentina, 13152
    - Uruguay, 5545
  - applications, FCC, 3269
  - aviation, public safety, industrial, and land transportation services, FCC rules and regulations, 3275
  - Browlian motion as route to statistical mechanics and to quantum communication theory, 8597
  - citizens radio service, FCC rules and regulations, 3276, 4761
  - Radio communication—Continued
    - deep and/or rapid fading phenomena in strictly line-of-sight UHF/SHF propagation, 6225
    - disaster communications service, FCC rules and regulations, 4761
    - domestic, public services, FCC rules and regulations, 3277
    - experimental services, FCC rules and regulations, 3272
    - fading statistics on 212-km line-of-sight overwater radio path at 1760 MHz, 6224
    - FM modulation of CW laser beam, 6710
    - industrial, scientific, and medical services, FCC rules and regulations, 3272
    - international fixed public services, FCC rules and regulations, 3277
    - line-of-sight systems, CC TM technical manual, 7377
    - partial revision of radio regulations, Geneva 1959, with additional protocol—
      - report, 13726
      - text, 7772
    - predictions and projections of election results, effects—
      - hearings, 16400
      - report, 15143
    - safety and special radio services, FCC applications and actions, 3269
    - selection of optimal working frequencies, Soviet research, 6518
    - treaty matters, FCC rules and regulations, 3272
    - tropospheric radio duct meteorology at VHF and UHF in theory and as observed on trip around world, 1551
  - Radio direction finding, principles, USSR study, 6577
  - Radio engineering:
    - engineering-installation standards manual, 4667
    - line-of-sight systems, CC TM technical manual, 7377
  - Radio equipment, *see* Radio apparatus and appliances.
  - Radio frequencies:
    - allocations, FCC rules and regulations, 3272
    - devices, FCC rules and regulations, 3272
    - high frequency ionospheric telecommunications systems, statistical performances, indexes, predicting, 2223
    - induction heating of low-pressure plasmas, 18035
    - management, Army field manual, 1759
    - mechanical device accurately measures RF phase differences in VHF or UHF ranges, 6848
    - optimal working communication, Soviet research, 6518
    - standard services provided by NBS stations WWV, WWVH, WWVB, and WWVL, 12979
  - Radio frequency modulation:
    - FM modulation of CW laser beam, 6710
    - maximum utilization of FM subcarrier bandwidth, 9992
    - threshold reduction techniques study, 6716
  - Radio in navigation:
    - aids—
      - Atlantic and Mediterranean area, 5336, 9974, 11646, 14580, 18102
      - Pacific and Indian Oceans area, 7006, 11647, 17075
  - Radio operators:
    - amateur, alien, agreement authorizing operation in U.S. and—
      - Argentina, 13151
      - El Salvador, 17242
      - France, 2897
      - Honduras, 15773
      - Kuwait, 2901
      - Netherlands, 8740

Radio operators—Continued  
 amateur, alien—continued  
   New Zealand, 17232  
   Nicaragua, 7159  
   Norway, 15784  
   Panama, 7188  
   Switzerland, 15776  
   Trinidad and Tobago, 15774  
 commercial, FCC rules and regulations, 3271  
 radioman 1 & C, Navy training course, 7022  
 radiotelephone 3d class operator permit, examination, study guide and reference material, 4762  
 transmitter and receiver, examination announcement, 7537  
 Radio programs, *see* Radio broadcasting.  
 Radio propagation, *see* Radio waves.  
 Radio ranges, *see* Omnilranges.  
 Radio receivers, *see* Receivers (radio).  
 Radio reflectors, gratings and networks of aluminum ribbons as radio reflectors, 16902  
 Radio services, *see* Radio communication.  
 Radio sets, *see* Radio apparatus and appliances.  
 Radio signals:  
   antipodal region of radio station NPM, Hawaii, airborne field measurements, results, 5345  
   attenuation data, deduction of reentry plasma properties about manned orbital spacecraft, 14494  
   cross modulation in Scamp signal processor, 9990  
   earth's magnetic field influence on back-scattered signal, computations, USSR study, 6575  
   overwater radio path at 1760 MHz, fading statistics on 212-km line-of-sight, 6224  
   PM or FM, threshold reduction techniques study, 6716  
 Radio Standards Laboratory, general information, 18078  
 Radio stations:  
   amateur—  
     alien, agreement authorizing to operate in U.S. and  
       Argentina, 13151  
       El Salvador, 17242  
       France, 2897  
       Honduras, 15773  
       Kuwait, 2901  
       Netherlands, 8740  
       New Zealand, 17232  
       Nicaragua, 7159  
       Norway, 15784  
       Panama, 7188  
       Switzerland, 15776  
       Trinidad and Tobago, 15774  
     communications on behalf of 3d parties, agreement with—  
       Argentina, 13152  
       Uruguay, 5545  
     permit operation by participants in 1967 Boy Scout world jamboree—  
       law, 13538  
       reports, 12368, 13665  
   field relay techniques, Army field manual, 5729  
   maritime services on land, shipboard, etc., FCC rules and regulations, 3274  
   NPM, Hawaii, antipodal region, airborne field measurements results, 5345  
   observing and interpreting results of studying fields of radio broadcasting stations, method, 9825  
   require furnishing of free time to candidates for public office, hearings, 16400  
   telecommunication, pre-sunrise operation of certain standard (AM) radio broadcasting stations, agreement with Canada, 15780

Radio stations—Continued  
 WWV, WWVH, WWVB, WWVL, standard frequency and time services provided by NBS, 12979  
 Radio telephone operators, *see* Radio operators.  
 Radio telescopes:  
   construction of new radiotelescope completed at Serpukhov, USSR article, 8255  
   effects of atmosphere on characteristics of maximum-size radiotelescopes, USSR study, 5012  
   orbiting, 1500-meter, feasibility, 11414  
 Radio-TV packet, FDA (periodical), 3804  
 Radio waves:  
   continuous wave detector has wide frequency range, 17994  
   diffraction, vector integral equation, 7935  
   propagation—  
     antipodal region of radio station NPM, Hawaii, airborne field measurements, results, 5345  
     at 5 GHz in Europe, comparison of predictions and measurements for various types of paths, 6223  
     in earth-ionosphere waveguide channel, long and superlong, 17873  
     line of sight UHF/SHF, deep and/or rapid fading phenomena aspects, 6225  
     short-range radio prediction services, USSR manual, 14237  
     UHF, in troposphere, 6508  
     USSR studies, 4939, 9649  
   tropospheric radio duct meteorology at VHF and UHF in theory and as observed on trip around world, 1551  
 Radioactivation analysis:  
   activation analysis, report, 2746  
   automated activation analysis, 5785  
   charged particle activation analysis, 1793  
   neutron activation analysis traces copper artifacts to geographical point of origin, 8388  
 Radioactive pebble bed chemical reactor system, *see* Reactors (atomic).  
 Radioactive substances:  
   low-level radioactive waste containers in accident environment, investigation, 8909  
   radioactive materials, international traffic, 7432  
   *see also* names of radioactive minerals, etc.  
 Radioactive waste disposal:  
   International Atomic Energy Agency symposium, 16747  
   porous permeable rock for nuclear waste disposal, 9778  
   problem unsolved, Hungarian study, 12708  
   processing, annotated bibliography of selected literature, 5786  
   solidification and long-term storage, symposium, proceedings, 5767  
   transport and disposal procedures, survey, 8909  
 Radioactivity:  
   AEC fallout program, quarterly summary report, appendix, 10300  
   airborne, USAEC radiometric reconnaissance, maps—  
     Arizona, California, Nevada, and New Mexico, 1801  
     Arkansas, Colorado, Montana, Texas, and Utah, 1802  
     South Dakota and Wyoming, 1803  
   artificial, reference horizons in Greenland firn, 4197  
   automatic sampler for collecting radioactive particulates in ground level air, 1788  
   Cluj city area, Rumania, effects on vegetation, studies, 1299  
   contamination, radiotoxicological aspects, Rumanian study, 2464  
   fallout—  
     characteristics from deeply buried nuclear detonation, 7426

## Radioactivity—Continued

- fallout—continued
  - distribution, characteristics, and biotic availability, Operation Plumbbob, 1812
  - Health and Safety Laboratory program quarterly summary reports, 1785-86, 5774-75, 16058, 13324-25
  - measurement on to high polar ice sheets Antarctic and Greenland cores, 17374
  - northern regions, 14794
  - protected schools, pictorial reviews, 5917, 16058
  - underground explosion, condition of formation, 1268
- fallout shelters—
  - architectural, engineering, and consulting firms with certified analysts, directory, 13424
  - dual-purpose designs receiving awards in Brooklyn competition, 7529
  - how are labor union members affected, 4383
  - HUD aids for shelters, 12625
  - improving protection in home basements, evaluating techniques, 5765
  - management handbook, 5916
  - national design competition, community center, awards, 16060
  - national survey, instructions, 15226
  - nuclear defense design for architects and engineers courses, announcement, 16053
  - policy resolutions of AFL-CIO, 1903, 17452
  - programmed orientation to civil defense, 13430
  - protection for homes with basements, handbook, 13425
  - shelter design and analysis, radiation shielding, 14847
  - shelter management, textbooks, 16057
- filter pack technique for classifying radioactive aerosols by particle size, final report, 10017
- method for determination of surface areas, 6702
- natural environment radioactivity from radon 22, 17140
- nuclear facilities, routine surveillance, report, 7065
- pneumatic insulation suit for protection, USSR study, 14231
- upper atmosphere, sampling by means of balloons agreements with Australia, 2923, 5538
- Radioassaying, procedures for environmental samples, 11725
- Radiobiologiya (periodical) : translation, 7418
- Radiobiology :
  - bibliographies, subject and author indexes, 13343
  - biological effects of space proton environment, estimate, 4176
  - biological interpretation of dose from accelerator-produced radiation, symposium proceedings, 15960
  - conference proceedings, 7075
  - mechanism of action of AET, protection of DNA against ionizing radiation by GED, 5713
  - problem, USSR study, 8258
  - protons effects on primates, 4179
  - radiation biology conference, proceedings, 15958
  - USSR periodical, translations, 4231-33, 7418
- Radiochemical analysis :
  - activation analysis, instrumentation, radiation techniques, and radioisotope techniques, 2746
  - radiochemical analysis of water (aerial), 1130, 6410
- Radiochemical Analysis Division, annual progress report, 2746

## Radiochemistry :

- 4 industrial radiation chemistry in Hungary, 14266
- plutonium, 126
- techniques—
  - activation analysis with charged particles, 1793
  - chemical yield determinations, 13331
- Radiography :
  - industrial, AEC licensing guide, 15957
  - inspection, method prevents secondary radiation, 17998
  - radiographic pattern, brightly visible, provided by thermal neutron image intensifier tube, 17921
  - requirements for cobalt-chromium alloy liners for small arms barrels, military standard, 9378
  - X-ray photos, digital computer processing, 6741
- Radioisotope submersible engine, conceptual design, final report, 5760
- Radioisotopes, see Isotopes.
- Radiological defense, planning and operations guide, 7528
- Radiological health, see Health.
- Radiological Health Division, scientific information retrieval system for research grants, 7064
- Radiological Research Laboratory, Columbia University, annual report on research project, 12009
- Radiological warfare, field CBR collective protection, Army technical manual, 5740
- Radiology :
  - dose calculations following reactor accident, fission product nuclides identification, 13349
  - radiological countermeasures ashore, 17068
  - radiological health data and reports (periodical), 3805
- Radiomen, see Radio operators.
- Radiometers :
  - calibration, modified blackbody device, 17995
  - radiometer-pyrometer, tech brief, 6769
  - technique for absolute temperature measurement at microwave frequencies, 17016
- Radiometric boreighting by sequential logging, 18055
- Radiometry :
  - USABC airborne reconnaissance, maps—
    - Arizona, California, Nevada, and New Mexico, 1801
    - Arkansas, Colorado, Montana, Texas, and Utah, 1802
    - South Dakota and Wyoming, 1803
- Radiosondes :
  - fission product nuclides, for radiological dose calculations following reactor accident, identification, 13349
  - standardization, bibliography, 15682
- Radios, see Receivers (radio).
- Radiosondes :
  - code, manual, 18253
  - dew point accuracies 40° C to -40° C, 15884
  - paper, 6913
- Radiotelescopes, see Radio telescopes.
- Radiotherapy, conference proceedings, 7075
- Radiotracer propellant gages, exploratory development, final report, 12016
- Radium, New Jersey cases, epidemiological follow-up, progress report, 10301
- Radon :
  - gas, useful for medical purposes, safely fixed in quartz, 6695
  - natural environmental radioactivity from radon 22, 17140
  - waters and their therapeutic uses, USSR study, 8241

- Radwan, M. A., absorption and distribution of  $C^{14}$  labeled tetramine in relation to its possible use in animal damage control, 4851
- Raftera, trussed joints, moisture cycling, 8101
- Ragsdale, Robert G.:  
heat- and mass-transfer characteristics of axial-flow liquid-core nuclear rocket employing radiation heat transfer, 14497  
radiant-heat-transfer liquid-core nuclear rocket engine, 18016
- Ragweed, eradication, hearings, 16303
- Ralch, Peter C., artificial kidney bibliography, 11718
- Railroad accidents:  
all line-haul and switching and terminal companies, summaries, 3916, 12514  
investigation reports, 11238  
summary and analysis, bulletin, 8230
- Railroad Adjustment Board, see National Railroad Adjustment Board.
- Railroad cars:  
commuter, 5-year market forecast, 4261  
equipment of class 1 railroads, 3587  
heavier loading of watermelons, damage and cost reduction study, 10154  
long travel shock mounts, rail impact testing, 14805  
maintenance, Army technical manual, change, 8891
- Railroad employees:  
benefits for railroad workers and their families, 2846  
dispute with railroads  
extend period under railway labor act—  
laws, 9040, 10482  
message from the President, 10511  
reports, 9112, 9279, 10567, 10736  
negotiations to ward off strike, etc.,  
message from the President, 9074  
settlement—  
hearings, 10660, 10868  
law, 13534  
reports, 12259, 12267, 12364, 13667  
status of negotiations, hearing, 9328  
summary of situation, etc., message from the President, 10514  
hours of service act of 1907, amend to reduce 16-hour limitation for certain employees, hearings, 4634  
railway labor act, text, 5303  
retirement act of 1937, etc.—  
amend to provide supplemental annuities, etc., law, 413  
amend to provide survivors benefits for children, nge 18-21, law, 414  
annuities under, adjustments, law, 414  
retirement and unemployment insurance act, text as amended, 1992, 15719  
retirement beneficiaries who receive social security payments, message about medicare, 15739  
wage statistics, class 1 railroads, 4042
- Railroad retirement act, see Railroad employees.
- Railroad Retirement Board:  
appropriations, 1967, law, 491  
appropriations, 1968—  
hearings, 9144, 13841  
reports, 10612, 15082  
monthly review, 3579  
report, 1966—  
departmental edition, 10072  
document edition, 9053
- Railroad Safety and Service Bureau, Railroad Safety Section and Locomotive Inspection Section annual report, 11239
- Railroad Safety Section, annual report, 11239
- Railroad supplies, Federal item identification guides for supply cataloging, supplements, 3285
- Railroads:  
carload unit costs by territories, 11237  
carload waybill statistics, 1964—  
mileage distribution by type of car, 6472
- Railroads—Continued  
carload waybill statistics, 1964—con.  
territorial distribution by type of car, 8231  
traffic and revenue, territorial distribution by commodity classes, 6473  
weight distribution by type of car, 8232  
carload waybill statistics 1964-65, supplement, 8235  
carriers, emergency board report, 9415  
chemical methods of controlling vegetation on railroad beds, USSR study, 12704  
class 1—  
freight commodity statistics, annual report, 12656  
income and balance-sheet items, 3865  
 motive power and car equipment, 3587  
operating revenues and expenses, 3656  
revenue traffic statistics, 3832  
train and yard service, 3943  
computer engineering in transportation, USSR study, 1173  
construction, emergency, Army technical manual, 10278  
first transcontinental, medal in honor of 100th anniversary of completion, report, 13822  
freight service costs, formula for use in determining, 4926  
interstate commerce act, amend, hearings, 12304, 17645  
James Milbolland and early railroad engineering, 11602  
labor-management dispute—  
extend period of no change under railway labor act—  
laws, 9040, 10482  
message from the President, 10511  
reports, 9112, 9279, 10567, 10736  
negotiations to ward off strike, etc.,  
message from the President, 9074  
settlement—  
hearings, 10660, 10868  
law, 13534  
reports, 12259, 12267, 12364, 13667  
status of negotiations, hearing, 9328  
summary of situation, etc., message from the President, 10514
- large—  
operating revenues and expenses, 3657  
operating statistics, 3658
- lessors and proprietary companies, 1965  
transport statistics, 8236
- meteorological servicing of railroad transportation, USSR study, 1182
- passenger train—  
abandonment, hearings, 12304  
discontinuances, hearings, 948, 13854  
post offices, potential savings available in manpower costs, GAO report, 6377  
private car lines, 1965 transport statistics, 4929  
revenue contribution by commodity and territory, developing, 8234  
schedule of annual indices, revised pages, 16728  
see also Railroad employees.
- Rails (birds):  
hunting, possession, transportation, importation in Alaska, 1967-68, Federal regulations governing, 14061
- Railway Employees' Department, AFL-CIO, emergency board report, 9415
- Railway Express Agency, Inc.:  
motor carrier accident, 6476  
1965 transport statistics, 8236
- Railway labor act, see Railroad employees.
- Railways, see Railroads.
- Rain:  
daily river and rainfall bulletin, Shreveport, La., area, 3179  
elevation effects on rainfall near Hollis, Alaska, 16655  
frequency distribution of rainfall in tropical storms, U.S. Gulf Coast (paper), 5593

# INDEX 1967

## Rain—Continued

- Hawaii, rainfall and streamflow from small tree-covered and fern-covered and burned watersheds, 8115
- tropical cyclone rainfall, effects on distribution of precipitation over eastern and southern United States, 15230
- see also* Precipitation.
- Rainbow Bridge National Monument, general information, 6984
- Rainfall, *see* Rain.
- Rainier (ocean survey ship):
  - launching (remarks), 7583
- Rainier, Mount:
  - aircraft accident, 7516
  - primary microbiological succession on landslide of Alpine origin, 11119
  - volcanic hazards, 9562
- Rainy Lake, area, Chippewa Indians land tenure at beginning of 19th century, 6974
- Raising livestock on small farms, 1692
- Raisins, malathion-treated drying trays, use to protect raisins from insects during drying and storage, 15859
- Rajan, K. S., application of inorganic ion-exchange membranes to electro dialysis, 8214
- Raleigh, N.C., area wage survey, 2504
- Ralles, Homer A., low-level aircraft operational hazards, 4223
- Ralls, Jack W., composition and flavor modification of processed peas, 11917
- Ralston Buttes district, Colorado, geology and uranium deposits, 15308
- Ramey, James T.:
  - policy considerations in desalting and energy development and utilization, 15969
  - remarks—
    - May 2, 1967, 8919
    - May 25, 1967, 10313
- Ramjets and rocket-ramjet hybrid engines, nonconstant area combustion and mixing, analysis, 1478
- Ramler, James E., low-thrust orbit raising in continuous sunlight while thrusting in plane perpendicular to earth-sun line, 15567
- Rammsonde equation, *see* Equations.
- Ramos Izquierdo, Angel R., *see* Reaud, Angel.
- Rampart project, and Alaska natural resources, 12636
- Ramseler, René O.:
  - role of sintering in snow construction, 15930
  - sintering process in snow, 10257
- Ramsey, Jerry W., surface area studies of anthracite by carbon dioxide adsorption, 1412
- Ramseyer rule print of act to grant consent of Congress to acceptance of certain gifts and decorations from foreign governments, 734
- Ramseyer rule print of foreign assistance act of 1966, 733
- Ramseyer rule print of foreign assistance act of 1967, 10652
- Ran Lim Ai, *see* Lim Ai Ran.
- Ran Lim Soo, *see* Lim Soo Ran.
- Ranches:
  - increasing income through grazing associations, 1717
  - prospector, cowband, and sodbuster, historic places associated with ranching, etc., in trans-Mississippi West frontier, 13008
- Rand, A. Stanley, ecology and social organization in iguana lizard, 15602
- Rand, Robert L.:
  - addresses, etc.—
    - Apr. 12, 1967, 7961
    - Oct. 23, 1967, 17755
- Randall, Carl, foreign trade regulations of Chile, 17482

- Randall, D. L., tropospheric radio duct meteorology at VHF and UHF in theory and as observed on trip around world, 1551
  - Randle Cliff radar digital range-measuring instrument, 18114
  - Randolph County, Ala., soil survey report, 18215
  - Randolph County, W. Va.:
    - coal, preparation characteristics, 2578
    - soil survey report, 11812
  - Random excitation, *see* Noise.
  - Random integer dispenser, 14116
  - Random processes, *see* Probabilities (mathematics).
  - Randomness (mathematics):
    - generating random information for experimental decision problems, 4225
    - nonparametric tests for randomness in sequences, 5248
  - Raney nickel, *see* Nickel.
  - Range finders, automatic, probability of target lock-on during search, USSR study, 11283
  - Range lands:
    - and related grazing lands, national handbook, 15745
  - Blue Mountains summer range, fluctuations in forage quality, 16663
  - cattle diets on native and seeded ranges in ponderosa pine zone of Colorado, 6369
  - chemical control of range weeds, 4102
  - establishing grass range in southwest Missouri Ozarks, 14092
  - forage and range research, challenges, 14753
  - locating pairs of comparable study areas, new system developed, 11121
  - Northwest range-plant symbols, list, 14141
  - ponderosa pine-bunchgrass range in Colorado, cattle grazing effects, 14764
  - range research, progress in 17 western States, 6136
  - Santa Rita Experimental Range, center for research on improvement and management of semidesert rangelands, 2331
  - western range and livestock, monthly report, 4062
- Range-management specialists, seasonal employment information, 2524
- Ranger 'rithmetic, 2293-96, 4825, 11108
- Rankin, B. Kirk, III, grammar for component combination in Chinese characters, 5289
- Rankine cycles:
  - Dowtherm A, technology, final report, 5761
  - space power systems, electrical component technology, design studies, 15964-965, 17399
  - space 3-loop powerplant, steady-state and dynamic operating characteristics, 2603
- Ransom, Kerry E., convey property to, 10528, 17630
- Ransom, William M., convey property to, 10528, 17630
- Ransom County, N. Dak., soil survey report, 8702
- Rantz, S. E., surface-water hydrology of California coastal basins between San Francisco Bay and Eel River, 15315
- Raphael, Pedro, relief, 289
- Rapid City, S. Dak., air transportation facilities (remarks), 12097
- Rapid transit, *see* Local transit.
- Rappahannock River:
  - Salem Church Reservoir, engineer report—departmental edition, 15227
  - document edition, 15056
- Rappaport, Donald F., soil survey of Wood County, Ohio, 5517
- Rapton, Avra:
  - seasonal work patterns of hired farm working force, 984
  - supplement, 9387

- Rare earths:  
additions on plain-carbon steel, effects, 6686  
materials, disposal from national and supplemental stockpiles, report, 14937  
minerals and metals, minerals yearbook chapter, 5123  
northern New Jersey, potential resources, 6674
- Rasch, A. A., medical ethics and research, 18247
- Raspberries:  
diseases, description, control, etc., 1681  
growing, types, planting sites, etc., 4105
- Rasters, optical instruments, USSR, 6505
- Ratajczak, Anthony F., solar-cell space power systems using spectral dispersion, 15579
- Ratcliffe, Brenda, urban research study centers, directory, 14919
- Rates, see Air carriers—Electricity—Freight rates.
- Rating scales:  
development of benchmark jobs for Air Force officer position evaluation, 5705  
psychiatric, handbook, 1573
- Ratings:  
advancement in rate or rating, manual, Navy, 7019  
change, 18107  
Coast Guard, enlisted ratings qualifications manual, 14876  
Navy training publications for advancement, 11667
- Rations:  
breakdown point operations, Army technical manual, 15948  
combat meals, rigging typical supply load for high velocity airdrop, 8889
- Ratliiff, Raymond D., locating pairs of comparable study areas, new system developed, 11121
- Rats:  
behavioral changes at ground level following gestation and growth in 100% oxygen at reduced pressure, 15899  
born and raised in low-pressure pure oxygen environment, energy metabolism, 5709  
control and extermination, Federal assistance hearings, 10641  
cystic lymphadenopathy due to Rous sarcoma virus, pathogenesis, USSR study, 6554  
erythrocytes changes in rats trained to hypoxia, USSR study, 4985  
extermination act of 1967, reports, 12284, 13676  
nitrogen metabolism in brain under impulse accelerations, USSR study, 1167  
oxygen environment, long-term effects at 210 mm. Hg absolute, 1740  
plasma, effects of ionizing radiation on amino compounds concentration, 5714  
urinary creatinine excretion as index of fat-free mass composition, 7415  
white, prophylaxis against poisoning with sarin, Bulgarian study, 6544
- Ratte, James C., ash flows and related volcanic rocks associated with Creede caldera San Juan Mountains, Colo., 8166
- Ranner, R. M., lecture, Apr. 5-7, 1967, 7870
- Ravalli National Wildlife Refuge, birds, list, 11084
- Raw materials:  
industrial—  
now and in the future (address), 10333  
supply outlook (remarks), 10334  
program, AEC authorizing legislation, 1968, hearings, 10491
- Ray, Hilary A., Jr., Gemini escape system, development and qualification, 12945
- Raymond Educational Foundation, lands in Coconino County, Ariz., conveyance to, 10325
- Rayner, Pearl C., price developments, 14304
- REA, see Rural Electrification Administration.
- REA bulletins, 1597, 7105, 10074, 17189-190, 18200
- Reaction wheels, minimum energy, control for satellite scanning celestial area, 9899
- Reactor fuel elements, solutions, analysis, 13333
- Reactor fuel rods, UO<sub>2</sub> fuel systems for water reactor applications, development and testing, 8902
- Reactor fuels:  
cermet fuel materials, estimating thermal conductivity, 8502  
development programs, summaries, 1804, 4238  
dispersed particles in beryllium oxide matrix, status of development, 7421  
fluid-bed fluoride volatility process recovers uranium from spent uranium alloy fuels, 9793  
nuclear, irradiated, cesium-137 in, separation technique provides rapid quantitative determination, 12845  
plutonium, used as nuclear fuel, determining price, USSR study, 15373  
processing, quarterly technical progress review, 3806  
radiant heat transfer in fuel region of gaseous nuclear rocket engine, 5183  
radioisotope submersible engines, fuel specification, 1777  
reactor burnable poisons, nondestructive analysis, evaluation of thermal neutron capture gamma ray techniques, 1790  
reactor energy release by nonuniform fuel redistribution, experimental study, USSR, 1295  
review of nuclear fuel requirements and resource (remarks), 10316  
thorium, for heavy water organic cooled reactor, evaluation, 5764  
three-dimensional calculation of fuel burn-up in water, cooled, water-moderated power reactors, 16740
- Reactor safety, see Safety of life.
- Reactors (atomic):  
accelerator-booster, fast, pulsed research, feasibility study, final report, 13322  
Army SM-1A reactor pressure vessel, radiation embrittlement, projected estimates, neutron spectral effects, 1554  
axial-flow liquid-core nuclear rocket employing radiation heat transfer, heat and mass-transfer characteristics, 14497  
boiling water reactors—  
feasibility studies of nuclear steam supply systems with capacities up to 10,000 MWt, 17391  
high power density BWR core-conceptual design, 7423
- BONUS—  
boiling nuclear superheater power station, final hazards summary report, 5784  
core development program, final report, 8901  
brazing tungsten for high temperature nuclear service in hydrogen, 11506  
built, being built or planned, U.S., 1805, 5788, 15968
- control systems—  
based on counting and Campbelling techniques, instrumentation program, 7422  
with gaseous control system, 14485  
development program, AEC authorizing legislation, 1968, hearings, 9041  
Enrico Fermi, use for irradiation testing, hearing, 1972  
experimental data and control, use of computers in analysis, 14808  
fast breeder power development, world outlook (remarks), 10305  
fast reactor program in United States, implications (remarks), 7441



- Reactors (atomic)—Continued  
 fast, transient response and safety in selected accidents, 5772  
 Federal item identification guides for supply cataloging, supplements, 3288  
 gas-cooled, fast breeder, annual progress report, 7420  
 gaseous core, thermal absorption in seeded gases, 12866  
 gaseous nuclear rocket fuel temperatures, local and average estimates, 16998  
 heavy water organic cooled, thorium fuels, evaluation, 5764  
 high flux isotope reactor (HFIR), dedication (remarks), 1815  
 high-temperature reactor operation, problem, USSR, 14273  
 licensing and regulation, hearings, 12184  
 liquid sodium metal cooled fast breeder, fuels and materials summary report, 1811  
 loss-of-flow accident, computer program predicts thermal and flow transients, 17919  
 materials, quarterly technical progress review, 3807  
 mathematical theory of critical state of reactors, certain problems, USSR, 15357  
 neutron exposure to simulated pressure vessel wall of A 302-B steel, through-thickness notch ductility and tension properties, 17093  
 power—  
     formation of transuranium isotopes, 124  
     licensing, regulations, safeguards, 10309  
     power reactor technology, quarterly technical progress review, 3697  
     pressure vessel steels, neutron embrittlement, 5356  
     exposure criteria, 5355  
 prestressed concrete reactor vessel—  
     for boiling-water reactor, 13319  
     model 1, 13320  
     model 2, 13321  
 radioactive pebble bed chemical reactor system, development, 12011  
 reactor shielding physics, problems, 12972  
 research and training reactor IR-100, USSR study, 15354  
 research reactors, utilization, symposium, 1797  
 simulator for nonnuclear testing of space power systems, 14487  
 SM-2 research reactor, USSR operating experience, 4946  
 sodium-cooled—  
     fast, feasibility study, 1792, 5778  
     USSR studies, 6527  
 spatial distribution of reactor radiation around horizontal channel of RA reactor at Vinca, Yugoslavian study, 6479  
 superheaters, corrosion resistance of stainless steel and nickel alloys, 9797  
 three-dimensional calculation of fuel burn-up in water-cooled, water-moderated power reactors, 16740  
 tungsten-reactor rocket engine, mapping as guide to operation and control, 9876  
 UO<sub>2</sub> fuel systems for water applications, development and testing, 8902  
 VULCAN (digital computer depletion program), use with independent 1-dimensional spatial calculations, 16990  
 Zero Power Reactor 1—  
     measurement of effective delayed neutron fraction, 2694  
     transport study of real and adjoint flux, 11535  
 Read, Ralph A.:  
     effect of gibberellic acid spray on seedlings of eastern redcedar, bur oak, and red oak, 11129  
     ten-year growth of 2 sources of large grade ponderosa pine transplants in Nebraska, 2312  
 Reader, Paul D., cathode durability tests in mercury electron-bombardment ion thrusters, 12960  
 Reader, T. D., research on non-destructive fluidic storage control device, 11409  
 Readers (optical characters), *see* Optical character reader.  
 Readera (tape):  
     tester automatically checks paper tape punch and reader after maintenance, 15537  
 Reading:  
     early training essential, USSR study, 16775  
     instruction, financial assistance guidelines under NDEA, 13956  
     national defense education act—  
         institutes for advanced study, summer 1967, handbook for directors, 1003  
         loans to private nonprofit elementary and secondary schools for equipment and materials, 1007  
     need to read and write, adult basic education leaflet, 10936  
     professional, guide for Navy and Marine Corps officers, 17079  
     text-workbook for success in Navy, 2778-79  
     recruit's day-to-day experiences, 2780  
 Reading machines, *see* Optical character reader.  
 Ready Reserve, *see* Reserve components of Armed Forces.  
 Reagan, John F., jr., relief, 770  
 Real estate:  
     American Academy in Rome, increase amount—  
         law, 16135  
         report, 14966  
     conveyance to Florida, bearing, 2042  
     District of Columbia unsafe improvements, limitation on civil actions for damages, amend code—  
         hearing, 17596  
         report, 16295  
     excess, GSA to assume care and handling functions, report, 13794  
     Federal surplus, for health, educational, and civil defense purposes, how to acquire, 12621  
     Government owned, in U.S., Territories, etc., inventory report, 4540  
     leased by U.S. throughout world, inventory report, 11160  
     leases by Post Office Dept., extend authority—  
         hearing, 7827, 9185  
         law, 10484  
         reports, 10562, 10726  
     living units, minimum property standards, interim revision, 6257  
     low cost housing, minimum property standards, 1137  
     minimum property standards—  
         housing for elderly and handicapped, 9582  
         low cost housing, 8201  
         multifamily housing, 11014-15  
         nursing homes, 8203  
     owned by U.S., throughout world, inventory report, 6356  
     property improvement loans, consumer bulletin, 8197  
     real property transferred by RFC to other Govt. departments, payment in lieu of taxes, extend—  
         law, 13531  
         reports, 10606, 13793  
     remove cloud on title to property owned by John Johnson, 10479, 10524, 12328  
     restoration of investment credit and accelerated depreciation allowance—  
         hearing, etc., 7764, 7844  
         law, 12168  
     legislative history, 13719  
     message from the President, 9063  
     reports, 7711, 7713, 9271, 10614



Real estate—Continued

- subdivisions sold through malls and in interstate commerce, prevent frauds, hearings, 17642
- title 1, property improvement loans, consumer bulletin, 6425
- see also* Farms—Mortgages.
- Real property, *see* Real estate.
- Realistic uncertainties and mass measurement process, illustrated review, 15592
- Realities of the learning market, 9408
- Reapportionment, congressional redistricting standards, establish reports, 912, 9126, 10793, 13657, 17573
- Rear window defogger for automotive vehicles, Federal standard, 6332
- Reasoning, logic of scientific research, USSR study, 1298
- Reaud, Angel, relief, 10714, 16194
- Rebellion in Russia's Europe, fact and fiction, 12373
- Reboredo-Newhall, Alfredo, relief, 9194, 12211, 13477
- Recall (psychology):
  - arousal as factor in reminiscence, 9981
  - confidence in recall in paired-associate learning experiments, 13262
- Receipts and expenditures, *see* Finance.
- Receivers (radio):
  - home type and automobile, current industrial reports, 12072
  - change, 4323
  - home-type radios, Federal item identification guides for supply cataloging, supplements, 3292
  - superheterodyne, optical, uses laser for local oscillator, 6753
  - tubes, temporary suspension of duty report, 2028
- Recipes:
  - beef and pork, 9344
  - beef and veal, 5630
  - cheese, 9335
  - corn grits, 9340
  - cornmeal, 10876
  - cracked wheat bulgur, 9341
  - desserts, Army technical manual, 8886
  - dry beans, 9348
  - dry split peas, 9346
  - eggs, 9350
  - fancy catfish, 8025
  - fish, 9347
  - fish & shellfish, quantity amounts, 15257
  - lamb in family meals, 17319
  - let's cook fish, complete guide to fish cookery, 9515
  - meat, canned, chopped, or luncheon, 9351
  - nonfat dry milk, 9336
  - peanut butter, 9345
  - potatoes in popular ways, 15851
  - poultry, 9349
  - quantity recipes for type A school lunches, 46
  - rice, 10875
  - rolled wheat, 9343
  - seafood, low-calorie, seafood slimmers, 8026
  - whole grain or enriched breads, 9342
- Reclamation Bureau:
  - appropriations, 1967, law, 403
  - appropriations, 1968—
    - hearings, 12287, 16393
    - report, 13678
  - bibliography, 8665
  - Engineering and Research Center in Denver, 11768
  - engineering research, 1965, annual report of progress, 11775
  - equal opportunity, affirmative program of manpower, utilization, 13104
  - irrigation operation and maintenance bulletin, 3448
  - laws affecting, chronological reprint, 1595
  - library accessions, 3504
  - press releases, 3757

Reclamation Bureau—Continued

- procedures for determining irrigation benefits, GAO review, 12590
- programs, briefing session, hearings, 10655
- publications available for sale, lists, 8668, 15720
- report, 1966, statistical appendix, 8669
- project data, 8670
- research reports, 7102, 10073, 11774-775, 17181
- safety news (periodical), 3811
- Reclamation era, quarterly periodical, 3810
- Reclamation of land:
  - feasibility of proposals, Interior Dept. to investigate, reports, 12362, 16240
  - Federal laws, chronological reprint, 1595
  - Federal projects, 1966, crop report, 17179
  - statistical appendix, 17180
  - making certain Federal reclamation and Indian irrigation project expenses non-reimbursable, report, 13836
  - reclamation project data, 1596
  - rehabilitation of strip and surface mining areas, special report, 14201
  - small projects act amendments—
    - hearing, 13869
    - reports, 15081, 16233
  - water measurement manual pertaining to measurement of water for irrigation projects, 11776
  - water resource development proposals, feasibility investigations by Interior Dept. report, 2015
- Reclamation projects, *see* Reclamation of land—*also* names of projects.
- Recognition (psychology):
  - brain diseases effects on recognition capacities studied by engineers for use in computer development, USSR study, 6488
  - image recognition, USSR study, 9635
- Recombination reactions, carbon monoxide and atomic oxygen at high temperatures, 2718
- Reconnaissance (aerial):
  - radiometric, maps—
    - Arizona, California, Nevada, and New Mexico, 1801
    - Arkansas, Colorado, Montana, Texas, and Utah, 1802
    - South Dakota and Wyoming, 1803
- Reconnaissance (military), *see* Military information.
- Reconstruction, Alaska earthquake, Mar. 27, 1964, 8169
- Reconstruction Finance Corporation:
  - transfer of real property to other Govt. departments, payment in lieu of taxes, extend—
    - law, 13531
    - reports, 10606, 13793
- Record players, *see* Phonographs.
- Recorders, *see* Recording instruments.
- Recording employee injuries, 9714, 16805
- Recording instruments:
  - digital magnetic tape system for recording radar data, 17096
  - run numbering system enters data, 12918
  - strip chart recorder time notation, technique, 12912
  - ultrasonic spectrometer, sensitive recording NMR, 2744
- Recordings, *see* Sound recordings.
- Records:
  - career opportunities, State Department, world-wide assignments, 5524
  - computerized system, manipulating dates and time lapses, 72
  - documents in hands of expert, USSR study, 9624
  - employers, kept under fair labor standards act, 11809, 13179
  - Government departments, etc., disposition, reports, 705, 7695, 9102, 10553, 10577, 12260, 13628, 13649, 13677, 14958, 16241

# INDEX 1967

## Records—Continued

- groups in National Archives and Federal records centers, list, 17029
- intake and case recording, fact-finding report, Santa Clara County Welfare Department, San Jose, Calif., 10973
- livestock dealers, recordkeeping under packers and stockyards act, 44
- management and services, procedures, GAO guidance manual, 6374
- papers in Library of Congress—
  - Chambers, Washington Irving, 11340
  - Schurz, Carl, 8330
- production in legal proceedings, FAA regulations, 11004
- public health conference, proceedings, 11th national meeting, 18185
- retention requirements, guide, 7990
- salvage of fire and water damaged records, SBA, Minneapolis, Minn., 14165
- see also Military records—
  - names of departments, etc.—also subjects.

## Recreation:

- boating guide, official Coast Guard basic principles, 219
- errata sheet, 4419
- classification, Library of Congress, 5086
- equipment, Federal item identification guides for supply cataloging, supplements, 3292
- facilities, development in national forests of California, personal history, 17799
- Forest Service lands in United States, use estimation, 15284
- land price escalation, report, 8603
- outdoor—
  - and associated research needs for suburban forests, 7888
  - conservation and outdoor recreation (remarks), 13242
- Federal areas, requiring entrance and user charges, 1967 directory, 13041
- Federal, questions and answers on Golden Eagle passport and other fees, 7030
- forest research, bibliography, 12568
- Government cooperation in building more recreation areas (address), 13208
- Government plans for greater developments near urban areas (remarks), 13238
- grants-in-aid manual, 3665, 7026-28, 13037-40
- Greenspan, crop land conversion, questions and answers, 11926
- Greenspan grants to provide more space, general information, 5672
- hazard from butt rot defect in lodgepole pine, 1093
- inventory of mountain lakes and streams, aerial photo techniques, 14128
- lighting, 10331
- new potential for cooperation, 2230
- outdoor recreation action (periodical), 3664
- packed with ideas for fun, Government publications, list, 11711
- planning for the handicapped, 17102
- research, publications, list, 13945
- research, reference catalog, 7029
- space standards, 14599
- trends, 10019
- Peace Corps, 5384
- promotional programs to create better total environment (address), 1719
- rural renewal loans for recreational development—
  - law, 500
  - report, 910
- tourism and recreation, state-of-the-art study, 13937
- visits, use of water-meter records to estimate, 12579

## Recreation—Continued

- water resource projects, cost sharing grants, report, 16368
- see also Boating.
- Recreation and Natural Beauty, Citizens' Advisory Committee on, see Citizens' Advisory Committee on Recreation and Natural Beauty.
- Recreation and Natural Beauty, President's Council on, see President's Council on Recreation and Natural Beauty.
- Recreation centers, FHA loans and grants for community centers, hearings, 15145
- Recreation resource specialists, see Recreation workers.
- Recreation workers:
  - resource specialists, examination announcements, 212, 12110
  - amendment, 8986
- Recreational areas and demonstration projects:
  - Federal recreation areas requiring entrance and user charges, 1967 directory, 13041
  - learning in action, selected issues, 2973
- Recruiting and enlistment:
  - Army recruiting & career counseling journal, 3812
  - Army ROTC advanced course, general information, 4210
  - job satisfaction and intent to reenlist, effect of selected variables, 7370
  - Navy occupations, enlisted programs handbook, 8581
  - reenlistment at end of 1st term of Army service, prediction, 118
- Recrystallization:
  - and preferred orientation in single-crystal and polycrystalline copper in friction studies, 8481
  - chrome spinel, 9775
  - effect on friction properties of metals in single-crystal and polycrystalline form, 15574
- Rectal polyps, see Polyps.
- Rectifiers:
  - selenium, conference on production of various types, Hungary, 9634
  - silicon controlled, and translators used by pulse generator produces high current pulses with fast rise and fall times, 1455
- Rectilinear accelerometer possesses self-calibration feature, 1453
- Red:
  - light, effect of wavelength and band width on recovery of dark adaptation, 14318
  - procion bright-red, properties as vital stain, USSR study, 14212
- Red Bird, Wyo., upper Cretaceous gastropods from Pierre shale, 8161
- Red Bird section of upper Cretaceous Pierre shale in Wyoming, 2363
- Red cedar, see Cedar.
- Red Creek:
  - engineer report—
    - departmental edition, 2218
    - document edition, 2067
- Red Dane cattle, see Cattle.
- Red flag (Chinese periodical):
  - translations, 3946
- Red is color of hurting, planning for children in hospital, 11758
- Red maple, see Maple.
- Red oak, see Oak.
- Red pine, see Pine.
- Red River and Valley:
  - basin water quality control, engineer report—
    - departmental edition, 2196-2200
    - document edition, 2070-74
- Red Sea:
  - expedition on board USSR research vessel, Akademik S. Vavilov, results, 15352
  - lights and fog signals, lists, 5332, 9973, 14579
  - maintenance of lights, agreement, 8729

Red Sea—Continued  
 mydocopid ostracods, 5315  
 sailing directions, 9971  
 Red tide:  
     bibliography, 9520  
     research summarized to 1964, 9520  
 Red Willow County, Nebr., soil survey report, 11809  
 Redcedar, *see* Cedar.  
 Redcliff, Newfoundland, leased buses area, continuing use of land adjacent, agreement with Canada, 7155  
 Reddy, N. M., use of self-calibrating catalytic probes to measure free-stream atom concentration in hypersonic flow, 11408  
 Redevelopment (city planning, etc.):  
     assistance for urban planning, Federal grants available, summary, 2381  
     books on urban planning, list, 4905  
     building a better America, 16709  
     city planning and urban studies fellowship program, appropriations, extend authority—  
         law, 14910  
         reports, 12360, 14945  
     demonstration cities and metropolitan development act of 1966, law, 465  
     summary, section-by-section analysis, legislative history, and conference report, 725  
     District of Columbia, Washington Channel waterfront priority holders, amend act, reports, 895, 7700  
     Federal role in urban affairs, hearings, 2117, 4640, 6111, 9316, 10841, 13865, 15157, 16413  
     errata sheet, 16412  
     print additional copies, report, 10789, 13650  
     5-cent urban planning commemorative postage stamp—  
         ceremony (address), 17110  
         poster, 15646  
     housing and urban development act, amend and extend, hearings, 10641  
     housing and urban development notes (periodical), 3403  
     hygiene problems in dwellings and hospitals, USSR conference, 5062  
     laws on urban development, compilation, 12290  
     local public agency letters, 3523  
     low and moderate income groups, new programs in urban development, 8193  
     National Capital—  
         1966-2000, regional development guide, 8530  
         proposed comprehensive plan, 8528  
         summary, 8529  
         provide cultural, international and transportation center, etc., message from the President, 7599  
     redevelopment area residents program, manpower development and training, overview, 10939  
     regional and area planning, EDA experience (lecture), 7870  
     role of Commerce Department in urban economic revitalization (address), 16479  
     small business displacements, problems under programs of public improvement, report of Attorney General, 4631  
     uniform and equitable relocation policies and procedures, etc., establish, hearings, 735  
     urban planning assistance program—  
         project directory, 12628  
         report, 3823  
     urban planning, information system, 11207  
     urban renewal—  
         directory, 4008, 15725  
         FHA mortgage insurance, consumer bulletin, 11203  
         manual, 4009  
         Nashville-Davidson County, metropolitan area, report, 12099

Redevelopment—Continued  
 urban renewal—continued  
     operations under title 1, Housing act of 1949, report, 3824  
     program, 17835  
     project characteristics, 15726  
     urban renewal notes (periodical), 4010  
 Redfern, R. E., promising candidate insecticides and acaricides evaluated at Brownsville, Tex., 13196  
 Redisch, William N., equilibrium analysis and its application to attitude control systems, 14499  
 Rediscovery of American city, address, 16716  
 Redmond, C. E., soil survey, Arenac County, Mich., 14654  
 Reduction of Nonessential Federal Expenditures Joint Committee, committee prints, 2985-86  
 Redundant circuits, *see* Circuits.  
 Redwood:  
     old-growth, sound wood residue left after experimental cuttings, 14106  
     silvical characteristics, 4853  
 Redwood National Park:  
     establish—  
         hearings, 15164, 17604  
         report, 17624  
 Reed, Jack W., multiple row charge blast-wave observations at long range, 1798  
 Reed, John H., nomination, hearing, 10823  
 Reed, L. B., insects and diseases of vegetables in home garden, 10171  
 Reed, Louis S., independent health insurance plans, 2870, 17201  
 Reed, R. R., structural response with different forms of damping, 14450  
 Reed, Ritchie H., estimates and projections of labor force and civilian employment in U.S.S.R., 12090  
 Reed, Roger J., some effects of DDT on ecology of salmon streams in southeastern Alaska, 8040  
 Reed, Walter W., starting and managing small automatic vending business, 8679  
 Reed, Wilmer H., III, propeller-rotor whirl flutter, 12971  
 Reejhsinghani, N. S., mass transfer in capillaries and porous media, 8211  
 Reemployment of veterans, *see* Veterans.  
 Reemployment rights, *see* Government officials and employees.—Veterans.  
 Reenlistment, *see* Recruiting and enlistment.  
 Reentry into atmosphere, *see* Atmospheric entry.  
 Reentry of offender into community, 8791  
 Reentry vehicles, *see* Rockets—Spacecraft.  
 Reeves County, Tex., large-scale field evaluation of electric insect traps to reduce bollworm populations, 11915  
 Referees in bankruptcy, tenure in office, increase, hearing, 16420  
 Reference books, children's literature, guide to reference sources, 5085  
 Referendums:  
     acreage-poundage referendum for burley tobacco, 5677  
     flue-cured tobacco, 14758  
 Refineries, *see* Petroleum refineries.  
 Reflection (light):  
     electronic filter discriminates between true and false reflections, 9837  
     uniform reflective films deposited on large surfaces, 5203  
 Reflection (sound), *see* Sound.  
 Reflectometers, special purpose, use modified Ulbricht sphere, 9863  
 Reflectors, process sequence produces strong, lightweight reflectors, 8449  
     *see also* Radio reflectors—Solar reflectors.  
 Reflexes:  
     conditioned reflexes—  
         and memory, mechanism, USSR studies, 5014

# INDEX 1967

## Reflexes—Continued

- conditioned reflexes—continued
  - changes in activities of dogs poisoned with sarin and soman and then treated with nemikol-5, Bulgarian study, 6563
  - effect of actinomycin 2703 on stabilization, and transition from short-term to long-term memory, USSR study, 1338
  - motor, biologically dissimilar in monkeys, effects of cholinolytics, USSR study, 9641
  - unconditioned and conditioned, of mice in ontogenesis, influence of ribonuclease, USSR study, 5028
- Reforestation, see Forest planting.
- Reform of Federal Criminal Laws, National Commission on, see National Commission on Reform of Federal Criminal Laws.
- Reformatories, corrections, task force report, President's Commission on Law Enforcement and Administration of Justice, 10031
  - see also Imprisonment.
- Refraction, sound by jet flow and jet temperature, 14389
  - see also Atmospheric refraction.
- Refractometers, use of sensing of  $H_2SO_4$ , specific gravity in lead-acid cell operation, 18112
- Refractory materials:
  - high-temperature turbine materials research, 10287
  - low thermal absorption cross sections, vapor-pressure data extrapolated to 1000 atmospheres, 18015
  - refractories, current industrial reports, 3170, 10358
  - refractory compounds and their role in engineering, USSR study, 4960
  - see also names of materials.
- Refractory metals, see Metals.
- Refresher programs for inactive professional nurses, guide for courses of study, 10060
- Refrigerants, octafluorocyclobutane, use in saline water conversion by direct freeze separation, 12644
- Refrigerated food trailers, see Trailers.
- Refrigerated storage warehouses, see Warehouses.
- Refrigeration and refrigerating machinery:
  - cryogenic refrigeration systems, Joule-Thomson, process, errata, 12989
  - equipment—
    - current industrial reports, 5853
    - Federal item identification guides for supply cataloging, supplements, 3288
  - improved cryogenic refrigeration system, 12885
  - single-engine Claude cycle at  $4.2^\circ F$  refrigerator, 14517
  - testing and rating refrigerated truck bodies, 17335
  - see also Refrigerators.
- Refrigerator cars temperatures, relative humidity, and atmosphere composition in mechanically refrigerated car loaded with lettuce, 15825
- Refrigerators:
  - clean vacuum attainment with one-watt refrigerator, 12930
  - gravity independent vapor absorption refrigerator, 14385
- Refugees:
  - and escapees, problems, investigation, authorization, report, 4620
  - Cuban, adjustment of status—
    - law, 445
    - reports, 662, 706, 909
  - Cuban and others, assistance—
    - appropriations, 1967, law, 405
    - appropriations, 1968, hearings, 15014
  - Cuban, movement to United States, agreement, 2903

## Refugees—Continued

- U.S. apparatus of assistance throughout world, hearings, 4649
- Refuges, see Wildlife refuges—also names of refuges.
- Refunds of taxes, see Tax refunds.
- Refuse:
  - collection and disposal, bibliography, 8642, 11753
  - disposal, international research group bulletins, 2827
  - national status on control of garbage-feeding, 3599
  - see also Waste products.
- Regan, W. H., solidification and long-term storage of highly radioactive wastes, proceedings, 5767
- Regato, J. A. del, conference on radiobiology and radiotherapy, 7075
- Regeneration (biology):
  - conifers, in southeast Alaska, effects of slash burning, 4834
  - mixed conifer clearcuttings on Apache National Forest, Ariz., 11126
  - sand pine, shelterwood method, 9539
  - seed fall and regeneration from group selection cut, 1st year results, 4840
- Regier, Donald W., growth in demand for feed grains in EEC, projection to 1970 and 1975 in relation to consumption, 13949
- Regional air cargo workshop (periodical), 3813
- Regional Economic Development Office, annual report, 2159
- Registers:
  - Air Force—
    - departmental editions, 5699-5700
    - document editions, 5983-84
  - Army—
    - departmental editions, 8896A, 10284-285
    - document editions, 9052, 10502-503
  - Army Materiel Command, approved recurring reports, 1749, 7376, 11981, 14788, 17372
  - Army National Guard, 11598
  - blind persons in D.C., establish report, 16382
  - civil aircraft, United States, 7953, 17749
  - Coast Guard, 7560
  - Coast Guard Reserve, 7559
  - Communist organizations, amend internal security act, report, 16290
  - Federal register, 3311
    - codification guide, list of CFR sections affected, 3312
    - index, 3313
  - Hill-Burton projects, 3398, 8633, 18169
  - microform masters, 2530
  - Military Academy, West Point, 11350
  - National Driver State records exchange service, 18087
  - Naval Academy, Annapolis, 15617
  - Navy and Marine Corps officers—
    - departmental edition, 11662
    - document edition, 10501
  - Navy and Marine Corps retired officers, 1546
  - papers in Library of Congress—
    - Chambers, Washington Irving, 11340
    - Schurz, Carl, 8330
  - shellfish production areas, 7078
  - State Department, biographic, 14670
- Registration, see subjects.
- Regression (statistics):
  - diamond drilling, analysis, 2584
  - fitting surfaces to assay and other three-dimensional data by quadratic-regression analysis, computer method, 2580
  - multivariate regression equations developed for predicting volumes in Hawaii hardwoods, 8084
  - nonlinear regression and principle of least squares, 6681

- Regulations, *see* Code of Federal regulations—also names of departments, etc., issuing regulations—also subjects.
- Regulators, optimal attitude, for spinning space station, design method, 6894  
*see also* Electric current regulators.
- Regulatory agencies, *see* Government offices.
- Regulatory announcement, Fish and Wildlife Service, 1080, 14061, 16623
- Rehabilitating the narcotic addict, 13175
- Rehabilitation:  
housing, HUD programs, report, 17643  
urban, financial institutions (remarks), 16590
- Rehabilitation Certificates, Exemplary, *see* Exemplary Rehabilitation Certificates.
- Rehabilitation counselors, *see* Counselors.
- Rehabilitation of criminals:  
corrections, task force report, President's Commission on Law Enforcement and Administration of Justice, 10031  
reentry of offender into community, 8791
- Rehabilitation of the disabled:  
blind, new life through vocational rehabilitation, 17184  
characteristics and trends of clients rehabilitated, 1962-66, statistics, 8784  
coordinator's scoreboard, review of what's new in placement of handicapped, 8990  
cost-benefit analysis of vocational rehabilitation, exploratory, 18196  
elementary nursing care, 1571  
facilities and sheltered workshops, standards, 10129  
heart disease, cancer, stroke, characteristics of clients rehabilitated in State vocational rehabilitation agencies, 7221  
help through vocational rehabilitation, 17182  
impact of returning disabled Vietnam veteran (remarks), 18143  
international programs (remarks), 11705  
mentally restored, interviewing guide for employment counselors, 10944  
opportunities for the hard of hearing and the deaf through vocational rehabilitation, 1662  
problems of severely handicapped (remarks), 11700  
rehabilitation agency and community work, source book for professional training, 7222  
rehabilitation counselor, medicine and medical practice, survey, instructor's manual, 10128  
rehabilitation record (periodical), 3818, 17185  
rehabilitation service series, 11892-893  
research and demonstration projects approved, 10130  
sheltered workshops, pathway to regular employment, 6593  
target rehabilitation, social security disability program, what professional people who work with the disabled should know, 2862
- vocational—  
help for the mentally retarded, 13174  
information for persons disabled in military service, 2966  
new grant programs, progress report, 5589  
staff, guidelines for organization and operation of vocational evaluation units, training guide, 11892  
State agencies, caseload statistics, 5588  
State divisions, directory, 7220  
State salary, ranges, 4988, 11194  
training methods, staff, 11893
- vocational rehabilitation act, amendments of 1967—  
hearings, 15172, 17600  
law, 16144  
reports, 14972, 16366  
6 steps forward, 17186
- Rehabilitation of the disabled—Con.  
vocational rehabilitation act compilation, 4653  
workshop for Baptists on deafness and rehabilitation, University of Tennessee, 2968
- Rehder, Harald A., valid zoological names of Portland catalogue, 8546
- Reichenecker, W. J., NASA contributions to metals joining, 6738
- Reid, J. Christopher, research in instructional television and film, 9409
- Reid, J. David, making household fabrics flame resistant, 10177
- Reid, Tommie, Job Corps staff newsletter, 3454
- Reid, Warren R., public papers of Lyndon B. Johnson, 2256
- Reid, William J., Jr.:  
control of caterpillars on commercial cabbage, etc., 15847  
pickleworm, how to control it on cucumber, squash, etc., 4116
- Reinforced concrete, *see* Concrete.
- Reinforcements, fibrous reinforcements for space applications, 14118
- Reinforcing role of States in education, 13961
- Reinsurance, Federal program to protect employees under private pension plans, establish, hearing, 950
- Reischauer, Edwin O., statement, 6099
- Reisen sie in eine neue welt der kuche, besuchen sie die USA, 17278
- Reiss, Albert J., Jr., crime and law enforcement in major metropolitan areas, 13060
- Relampagos, Gloria A., relief, 286, 548
- Relativity (physics):  
special relativity, how to understand, 13346
- Relay I radiation experiment, 1482
- Relays, *see* Electric relays.
- Release devices, controlled, prevents damage from dynamic stresses, 6790
- Releases, *see* name of office issuing releases.
- Reliability (mechanical):  
analytical technique permits comparison of reliability of alternate mechanical designs, 15491  
Apollo applications reliability and quality assurance program plan, 11393  
bionics and reliability, USSR study, 11251  
complex technical systems, USSR study, 12743  
design review for space systems, 14405  
diode reliability prediction technique, 6720  
earth satellites, effectiveness of systems tests, 2697  
NASA, evaluation of reliability programs, 8442  
reliability abstracts and technical reviews (periodical), 9930  
screening of semiconductor and integrated circuit devices for high reliability, 9800
- Relief work:  
disaster—  
communications, FCC rules and regulations, 3276  
Federal assistance, guide, 7919  
groups in disaster (paper), 10049  
relief act of 1965, law, 473  
relief, status of funds, report, 7603
- Religions:  
Communist exploitation of religion, hearing, print additional copies, report, 12371  
religion and mental health, 1960-64, bibliography, 11719  
South Vietnam, faith and fact, 14587
- Religious articles, importation, customs information, 7841
- Religious education, teaching in Armed Forces, Protestant religious education program, 17706

# INDEX 1967

- Religious liberty, enforcement of 1st amendment to the Constitution, report, 10729
- Relocation, *see* Eminent domain—Plants (Industrial).
- Relocation (housing), *see* Redevelopment (city planning, etc.).
- Remote control:
  - computer program determines performance efficiency of remote measuring systems, 2638
  - head-controlled TV system high-quality remote image, 16887
  - high pressure valve, remotely operated, protects personnel testing spacecraft systems, 15551
- Remote sensors, *see* Sensors.
- Remper, Paul S., design method for optimal attitude regulator for spinning space station, 6894
- Renal diseases, *see* Kidneys.
- Rendezvous (space):
  - advanced antenna techniques for rendezvous radar, study, 11403
  - lunar mission, abort guidance, manual technique with concentric-flight-plan rendezvous, 14481
  - lunar module, sextant navigation measurements, analysis, 6903
  - rendezvous and docking, space vehicle flight control systems, analysis and design, 12874
- RONDovu/PRESTO, program for mission trajectory optimization, 5179
- Renegotiation, *see* Government contracts.
- Renegotiation act of 1951, *see* Government contracts.
- Renegotiation Board:
  - annual report, 7104
  - appropriations, 1968—
    - hearings, 9145, 15147
    - reports, 10600, 15131
  - bulletins, 11777, 13105-110, 15722-723
  - regulations, 18197-198
  - rulings and bulletins—
    - index, 15721
    - table of citations, 15724
- Reno, Pa., underground combustion oil-recovery experiments in Venango second sand, Reno pool, Venango County, 11372
- Rensselaer Polytechnic Institute, linear accelerator, use in plasma oscillations, experiment, 12870
- Rent:
  - shares of crop as payment in farm operations, 7223
  - supplement—
    - assistance, FHA regulations, 1048
    - help for tenants, 12623
    - program, assistance to elderly, effects, hearings, 13838
    - program for low-income families, general information, 4900, 6422
    - proposals, how to develop, guide for sponsors and housing owners, 6424, 11200
  - your farm rent determination problem, 17311
- Rental housing, *see* Housing.
- Reorganization of Government activities, *see* Government reorganization plans.
- Repair parts:
  - aircraft—
    - Army Dept. management at depots in U.S., GAO review, 9555
    - certification procedures, Federal aviation regulations, 6238, 10988
    - procurement for outfitting aircraft carriers, potential savings, Navy Dept., GAO report, 8136
    - certification procedures for products and parts, Federal aviation regulations, 10987
    - packaging and packing procedures, military standard, 16468
  - Repair parts—Continued
    - savings by eliminating low-cost, low-demand space parts from defense supply system, Navy Dept. and Defense Supply Agency, GAO report, 17815
  - Repair shops:
    - equipment, Federal item identification guides for supply cataloging, supplements, 3287
    - specialized equipment, industrial plant equipment handbook, 7852
  - Repair stations, *see* Aircraft repair stations.
  - Repairing, *see* subjects.
  - Repairmen, *see* Mechanics (persons).
  - Repas, David S., voltage distortion effects of SNAP-8 alternator speed controller and alternator performance results, 12950
  - Repellents, *see* Insect repellents.
  - Repenning, Charles A., subfamilies and genera of Soricidae, 14173
  - Replacing a zipper, 7288
  - Reporters and reporting, Pravda reviewer comments on 1966, USSR study, 5006
  - Reports:
    - government research and development reports, program, availability, etc., 5294, 14520
    - new technology reporting to NASA—
      - management guidelines, 1418
      - reportable items under new technology clause, 5279
    - preparing contractor reports for NASA, data presentation, 1443
    - reports to be made in Congress, list, 4485
    - see also* names of departments, etc., issuing reports—*also* subjects.
  - Reproduction:
    - expanded model, economic computations, USSR book, 16734
    - yellow-poplar softwood cuttings, short-term storage, 11131
- Republic Aviation Corporation, Farmingdale, Long Island, post layoff labor market experiences of former workers, 5719
- Republic of China, *see* China.
- Republic of Korea, *see* Korea.
- Republic of Nigeria, *see* Nigeria.
- Republic of South Africa, *see* South Africa.
- Republic of Vietnam, *see* Vietnam.
- Republic quadrangle, Wash. geology, 16682
- Republican Party, report, 89th Congress, 2d session, supplement, 4572
- Request oriented information selection program, 8506
- Requirements for electing union officers, 8286
- Requisitions:
  - MILSTRIP, military standard requisitioning and issue procedures, manual—
    - changes, 6153, 15199
    - supplements, 4679, 6152, 16472
  - requisition fund codes, MILSTRIP, 16473
- Rescue equipment and appliances:
  - aircraft, fire and rescue truck, 1,000-gallon, guide specification, 10246
  - Federal item identification guides for supply cataloging supplements, 3287
- Rescue operations, *see* Rescue work.
- Rescue work:
  - manual for rescue divers, USSR, 6503
  - national search and rescue manual, amendment, 12124
  - rescue breathing, infants and small children, general information, 5461
- Reseal program in commercial storage, hearings, 10627
- Research:
  - Academy of Sciences, Ukrainian SSR, organization of comprehensive research, 15399
  - cooperative research to improve nation's schools, report, 16510
  - external research paper, 7144
  - Federal research and development programs, decisionmaking process, report, 15001



Research—Continued

Federal research & development reports, Government-wide index, 3381  
 National Institute of Allergy and Infectious Diseases, role of collaborative research program, 8649  
 naval, reviews (periodical), 3607  
 research activities, USSR need cited, 2428  
 research and development—  
     congressional concern, bibliography, 4641  
     federally financed, investigation and study, authorization, report, 6075  
     funds equitable distribution among States by Government agencies, hearings, 10839  
     geographical distribution, of Federal funds, 13012  
     Government reports, abstracts, etc., 3984  
     Government-wide index, 3381  
     management and marginal employee, personnel practices, etc., 2242  
     resources, funds and manpower in U.S., national patterns, 14562  
     small business pooling, 5496  
     review of selected Government research and development reports, 2742  
     symposium, 17163  
     see also Legal research—Military research—Scientific research—also names of departments, etc., doing research—also subjects.  
 Research analysts, operations, examination announcement, 10430  
 Research and development reports, Atomic Energy Commission, 122-129, 1774-1812, 4231-38, 5755-95, 7417-33, 8901-11, 10297-304, 12000-19, 13313-349, 14808-809, 15958-969, 17390-400  
 Research and development series, Army, 4219A  
 Research and statistics notes, 1607, 2866-67, 5514-16, 7129-32, 8689-90, 10086, 11798-799, 17198-202, 18208  
 Research Bureau, Education Office, support for research and related activities, description, 6193  
 Research Conference in Pulmonary Diseases, transactions, 13172  
 Research Conference on Patterns of Living and Housing of Middle-aged and Older People, proceedings, 14634  
 Research foresters, see Foresters.  
 Research information digest, recent publications of southeastern Forest Experiment Station, 11109  
 Research laboratories, Federal research equipment, better management, procurement, and utilization, hearing, 15028  
     see also names of laboratories or places where located.  
 Research notes, Forest Service, 1088-93, 2297-2326, 4826-45, 6365-70, 8059-99, 9533-40, 11110-131, 12570-583, 14087-122, 15281-286, 16654-660, 17801-804  
 Research papers, Forest Service, 1094-98, 2327-34, 4846-56, 6371, 8100-20, 9541-44, 11132-141, 12584, 14123-145, 16661-664, 17805-806  
 Research profiles, National Institute of Neurological Diseases and Blindness, 18175-183  
 Research reactors, see Reactors (atomic).  
 Research reports:  
     Cold Regions Research and Engineering Laboratory, 97, 1754, 4196-97, 5725, 7378-80, 8878, 10235-258, 11982, 13290-292, 14792, 15930, 17374-376  
     Fish and Wildlife Service, 11090, 17783  
     Lake Survey, 12776, 16833

Research reports—Continued

National Cancer Institute, 15708  
 price lists, selective bibliography of Government reports, list, 1933  
 Reclamation Bureau, 7102, 10073, 11774-775, 17181  
 Social Security Administration, 1608, 2868-70, 13119-120, 17203  
 Research review (periodical), 16478  
 Research Services Division, NIH, services in 1966, record of achievement, 10046  
 Reserve components of Armed Forces:  
     construction appropriations, 1967, law, 457  
     construction appropriations, 1968, hearings, 16305  
     deceased members of National Guard and Ready Reserve, furnishing uniform, and presentation of flag of United States, report, 16229  
     enlisted members of Army, etc., credit inactive Reserve service in computing retired pay, report, 16270  
     facilities, construction authorization, 1967, report, 623  
     facilities, construction authorization, 1968—  
         hearings, 13695, 16395, 17637  
         law, 17555  
         reports, 13684, 13688, 16284, 16371  
     job rights, key answers for employers, etc., 14714  
     personnel, training, equipment, and readiness status, subcommittee report, 2107  
     physicians' appointment and residency consideration program, information bulletin, 12441  
     Reserve forces bill of rights and vitalization act—  
         hearings, 6030, 17640  
         reports, 658, 6012  
 Reserve Officers Training Corps, Air Force, do you measure up to Air Force ROTC, recruiting information, 15885  
 Reserve Officers Training Corps, Army:  
     advanced course, general information, 4210  
     junior ROTC—  
         manual, 17385  
         training today for leadership tomorrow, 4193  
         manual, 1766, 17385  
 Reserve Officers' Training Corps, Navy, Naval Junior ROTC, fall 1967 bulletin, 11659  
 Reservoirs:  
     Columbia River basin, storage in major power reservoirs, monthly report, 3907  
     evaporation control, effects of monolayers on insects, etc., 7102  
     oil—  
         Cut Bank field, Mont., characteristics, 8376  
         permeability curves of concern to engineers, 14360  
         water-drive, recovery of additional oil, 2574  
     outlet works, Howard Hanson Dam, Green River, Wash., hydraulic model investigation, 2201  
     Pacific Northwest, month-end storage in major reservoirs, 3907  
     Pahrump Valley, hydrology of valley-fill and carbonate-rock, 14178  
     petroleum and natural gas, gravimetric effects on mass properties of sedimentary rocks, 12608  
     small, hydrologic effects in Sandstone Creek watershed, Beckham and Roger Mills Counties, western Oklahoma, 2376

- Reservoirs—Continued
  - United States, 4895
  - see also names of reservoirs.
- Residences, see Houses.
- Resident physicians, see Physicians.
- Resident youth worker for duty in Job Corps conservation centers, 12111
- Residential construction, see Building.
- Residual magnetism holds solenoid armature in desired position, 8464
- Resins:
  - epoxy—
    - glass-epoxy fabricated plates, compressive behavior, 9895
    - microparticle and fiber reinforcement, 5352
    - photosensitive filler minimizes internal stresses, 14429
  - infrared spectra, related polymeric materials (elastomers), 15636
  - m-aminobenzyl amine (MABA), syntheses, properties, and uses, 9989
  - materials, U.S. production and sales, preliminary report, 3699
  - phenolic-carbon composite, nondegraded and thermally degraded, thermal and mechanical properties, 16917
  - resin fraction from various low-temperature tar pitches, characterization, 6632
  - synthetic, primer for coal-tar enamel, 10073
  - see also Adhesives—Naval stores.
- Resistance, see Electric resistance.
- Resistance heating releases structural adhesive, 8469A
- Resistors, see Electric resistors.
- Resolutions:
  - digest, 3206
  - history, 3132
  - see also Law—Senate bills.
- Resonance:
  - dampers reduces effects on force transducer, 5216
  - frequency, natural shift, 2745
  - resonance type machine, for high temperature vacuum fatigue testing of type 316 stainless steel and Inconel X, 11676
  - tungsten resonance absorption integrals, determination by activation, 18012
  - see also Electric resonance—Electron spin resonance—Nuclear magnetic resonance.
- Resonance capture, see Neutrons.
- Resonance integrals, see Neutrons.
- Resonant frequency can be adjusted on vibration mount, 6829
- Resonators, cavity resonator formed by region between earth and lower ionosphere, model, 2225
- Resort areas, climatic summaries, 12478
- Resource bulletins, Forest Service, 2335-39, 4857-60, 5121-24, 14146, 15290, 16665-666, 17807-809
- Resource management system, procedures manual, class 1 installations, 7384
- Resource publication (series), 1081, 2280-81, 4808, 6356, 8033-34, 12548, 15267, 16624-626, 17784-785
- Resources, see Natural resources.
- Respiration:
  - bedrest effect on circulatory response to Valsalva maneuver, 2595
  - breathing in flight, the higher you fly the less air in the sky, 8920
  - breathing under high ambient pressure, 12792
  - forces deforming rib cage, 10238
  - head lettuce in low-oxygen atmospheres, market quality and rate of respiration, 10180
  - indirect calorimetry in low pressure environment, 11957
  - measurement of total body hemoglobin by bloodless techniques, 10232
  - normal young adults at 3475 and 4300 meters, 5753
- Respiration—Continued
  - oxygen breathing effects upon night vision thresholds, 11347
  - oxygen-helium atmosphere—
    - 56-day exposure study, 92
    - observations, 80
  - physiological protective efficiency of civil aviation oxygen equipment, techniques for evaluating, development, 15979
  - prototype airborne respiration analyzer, feasibility testing, etc., 8425
  - rate, development of transducers for aircraft environments, 18044
  - rescue breathing, infants and small children, general information, 5461
  - variations in process during gamma radiation of plant tissue, 8511
  - what should cosmonauts breathe? USSR study, 5019
- Respiratory system, reactions of crewmen during Voskhod-2 orbital flight, 6555
- Response functions:
  - human operator response speed, frequency, and flexibility, review, analysis and device demonstration, 16904
  - normal response, functions calculation time, computer program reduces, 11446
- Responsible conduct and American economy, today and 10 years from now, 2956
- Rest:
  - bedrest—
    - effect on physiological function, 2595
    - effects of muscular exercises and intermittent venous occlusion as possible preventive of cardiovascular deconditioning after bed recumbency, study, 8408
  - hypoxic, effects of lower body negative pressure on physiologic changes after 4 weeks, 7346
  - prolonged effects of 9-alpha-fluorohydrocortisone and venous occlusive cuffs on orthostatic deconditioning of, 7365
  - prolonged, long-term lower body negative pressure, influence on circulatory function of man, 1734
  - prolonged, metabolic effects of prolonged bed rest, their modification by simulated altitude, 14777
  - short-term, effect on plasma volume and catecholamine response to tilting, 7345
  - man during early exposure to high altitude, cardiopulmonary responses, 7413
- Restaurants, lunchrooms, etc.:
  - employees under fair labor standards act as amended, 7225
  - school lunchrooms, work injuries and accident causes, 14282
- Rester, D. H., electron scattering and bremsstrahlung cross-section measurements, 9811
- Restivo, Guiseppeina, see Bellizia, Josephine A.
- Restos, Marina P., relief, 795, 19548, 13520, 13758
- Restraint apparatus:
  - aircraft, basic systems, functional comparison, 17413
  - Army fixed-wing cargo restraint design criteria analysis, 10289
  - internal, development for integrated restraint-pressure suit system, 6727
  - shoulder installation in general aviation aircraft, recommendations, 7446
- Retail prices, see Prices.
- Retail stores, see Stores.
- Retail trade:
  - Azerbaijan SSR, retail store networks, problems, 1171
  - census of business, 1963—
    - area statistics, 10339-340
    - bound volume, 151
  - gasoline service stations and liquefied petroleum (LP) gas dealers, 4270
  - leased departments, 5816

Retail trade—Continued

census of business, 1968—continued  
 major retail centers, area statistics,  
 bound volume, 1832  
 retail and wholesale cooperatives, 5817  
 subject reports, bound volumes, 5818,  
 5830-31, 10341  
 continuing review, Census Bureau surveys,  
 announcement and order form, 1884  
 current retail trade reports, 3172  
 annual sales, inventories, etc., 17439  
 employee earnings and hours—  
 June 1965, 8302  
 June 1966, 11332  
 minimum wage and maximum hours, study  
 to measure effects of 1961 amendments,  
 5591  
 operating costs and ratios, bibliography,  
 5493  
 retail and service enterprises and estab-  
 lishments under fair labor standards  
 act as amended, 8788  
*see also* Salesmen and salesmanship—*also*  
 names of commodities and industries.  
 Retailers, encourage your low-income cus-  
 tomers to take part in food stamp pro-  
 gram, 17330  
 Retailers, *see* Ball-bearing retainers.  
 Retaining walls, reinforced concrete, cantilever  
 and counterfort types, typical plans,  
 18194  
 Retina, burns from low-yield nuclear detonations,  
 threshold distances, 69  
 Retired officers, etc., *see* Armed Forces.  
 Retired pay, *see* Pensions.  
 Retirement:  
 age requirement, lower for former Light-  
 house Service employees, report, 12251  
 benefits under OASDHI, comparison with  
 prices and wages, 1966 experience, 8690  
 District of Columbia teachers on full an-  
 nuity at age 55, amend act, report,  
 14992  
 foreign affairs agencies, information for  
 prospective retirees, 8721  
 measuring early retirement, revision of  
 benefit awards series, 17198  
 planning for the later years, 18207  
 program, build your own with savings  
 bonds, 5481  
 public employee systems, benefits and bene-  
 ficiaries, 11798  
 social security benefits—  
 information, 10085  
 rights and responsibilities of recipients,  
 7133  
 social security increases, reduction of  
 benefits—  
 hearings, 10798  
 report, 15144  
 State and local government systems—  
 covering employees also covered by Fed-  
 eral old-age, survivors, disability and  
 health insurance program, survey,  
 2868  
 1965-66, finances, 7492  
*see also* Armed Forces—Civil service pen-  
 sions—Judges—Pensions—Railroad em-  
 ployees.  
 Retirement and disability fund, *see* Civil  
 service pensions.  
 Retirement insurance, *see* Old age, survivors,  
 and disability insurance.  
 Rettle, Dwight F., remarks, Aug. 23, 1967,  
 16713  
 Réunion Island, labor conditions, 5077  
 Reuss, Henry S., food for progress in Latin  
 America, 13701  
 Reuss, Max L., Jr., conjugate-pair feed sys-  
 tems, 5360  
 Revenue:  
 agent, career in professional accounting,  
 IRS, 1147  
 carload waybill statistics, 1964, territorial  
 distribution, traffic and revenue by com-  
 modity classes, 6473

Revenue—Continued

District of Columbia Federal payment au-  
 thorization and borrowing authority act  
 of 1967, hearings, 10646  
 rail revenue contribution by commodity  
 and territory, 8234  
 revenue sharing and its alternatives, what  
 future for fiscal federalism? 13546  
 hearings, 16149  
*see also* Internal revenue—*also* names of  
 articles, etc., from which revenue is  
 derived.  
 Revenue officer, 2409  
 Revenues and classes of post offices, 5390  
 Revetments, *see* Shore protection.  
 Review essay, evolution of an economist,  
 6616  
 Revision and Codification Subcommittee,  
 Judiciary Committee, Senate, resumé of  
 activities, report, 10743  
 Revolution, 1775-83, naval documents of  
 American Revolution, American theatre,  
 Sept. 3-Dec. 7, 1775, European theatre,  
 Aug. 11-Oct. 31, 1775, 2773  
 Revolutionary War, *see* Revolution, 1775-  
 83.  
 Revolutions, world revolutionary process,  
 USSR study, 12715  
 Revolvers, use and care, 17116  
 Revolving funds:  
 Guam development fund, establish, report,  
 15134  
 Indian loan fund, amend law, reports, 642,  
 15116  
 Rewards (prizes, etc.):  
 America's airport beautification awards  
 program, 17741  
 awards and recognition of President's  
 Committee on Employment of the  
 Handicapped, 1355  
 candidates for state prizes, USSR, 11282  
 college architecture design awards, 7904  
 designs for higher education facilities,  
 7894  
 excellence in national public service (re-  
 marks), 2950  
 fallout shelter designs receiving awards in  
 Brooklyn competition, 7529  
 Housing and Urban Development Depart-  
 ment honor awards for design excellence,  
 16710  
 John E. Fogarty Public Personnel Award,  
 presentation to Morris Leonhard (re-  
 marks), 17125  
 Latvia State prize candidates in science  
 and production, USSR announcement,  
 12683  
 national fallout shelter design competi-  
 tion, community center, awards, 16060  
 National Guard Association trophy,  
 Pershing trophy, National Guard  
 (State) trophy, announcement of win-  
 ners, 14522  
 National Institute of Mental Health,  
 graduate and undergraduate training,  
 7066  
 Navy and Marine Corps, ribbons of decora-  
 tions and awards (poster), 11663  
 presidential award, new youth fitness test  
 norms, 5408  
 President's Committee on Employment of  
 the Handicapped, awards program at a  
 glance, 1356  
 President's E award for export excellence,  
 presentation to—  
 A. R. Wood Manufacturing Co., (re-  
 marks), 1448  
 Dole Company (remarks), 7295  
 Pauelfab International (remarks), 1949  
 York-Shipley, Inc. (remarks), 4447  
 recognition and awards program, FAA  
 handbook, 4754  
 True Davis on accepting Americanism  
 award from veterans of foreign wars  
 (remarks), 15810

# INDEX 1967

- Rewards—(prizes, etc.)—Continued  
urban development intergovernmental awards program, 14187
- Reyes, Robert J.:  
electrochemical carbon dioxide sensor, 17354  
electrochemical technic for measuring carbon dioxide content of blood, 10243
- Reynolds, James J., nomination, hearing, 7823
- Reynolds, R. R., 1966 harvest, Crossett farm forestry forties, 8098
- Reynolds, Thaine W., free-molecule flow and surface diffusion through slots and tubes, summary, 8508
- Reynolds number:  
and flow incidence effects on force characteristics of family of flat-front cylinders, 9903  
evaluation of radial-inflow turbine over range of Reynolds number, 6881  
forces on sphere moving steadily along circular path in viscous fluid, 10258  
performance evaluation of turbine over range of Reynolds number, 6871
- RF, *see* Radio frequencies.
- RF inductor has high Q, is stable at higher temperatures, 9861
- RFC, *see* Reconstruction Finance Corporation.
- Rh factor, *see* Blood.
- Rheita, LAC 114, lunar chart, 4167
- Rhenium:  
deposition of rhenium and rhenium-tungsten by thermochemical reduction of hexafluorides, 9767  
dislocation structures in slightly strained tungsten-rhenium alloys, 14486  
single-crystal and polycrystalline, friction characteristics in vacuum, 9912  
tungsten alloys, lower-cost, 5208
- Rheogoniometers:  
duty-free entry for—  
Northwestern University, 617, 7653, 14889, 16357  
Princeton University, 618, 7651, 14885, 16354  
Tufts University, 7647, 13775, 14901
- Rheumatism, arthritis and rheumatic diseases abstracts, 3045
- Rheumatoid arthritis, mycoplasma relationship, conference proceedings, 2833
- Rhizomes, distribution in different soil types, Pine Barrens, New Jersey, 6408
- Rhode, John E., digital codes for design and evaluation of convectively cooled rocket nozzle with application to nuclear-type rocket, 5269
- Rhode Island:  
area measurement report, 8929  
census of agriculture, 1964, State and county statistics, 5904  
census of manufactures, 1963, area statistics, 164  
census of mineral industries, 1963, area statistics, 5840  
county business patterns, 12060  
errata, 14823  
electric rate book, 11024  
landings, fish and shellfish, 3836, 12542  
mineral industry, minerals yearbook chapter, 1403  
war on poverty, examination, hearings, 13878
- Rhodes, Cecil A., relief, 7616, 12347, 13474
- Rhodesia:  
labor conditions, 1388  
mineral industry, minerals yearbook chapter, 12806
- Southern—  
and United Nations, U.S. position, 8720  
Rhodesian transaction, regulations and related documents, 11885  
trade, etc., message from the President, 9055
- Rhodium, sliding friction, 15578
- Rhubarb:  
packaged, storage and shelf life, 5645  
production, outdoors and in, 10174
- Rhyacionia, *see* Tip moths.
- Rhyolite, grades in compositionally zoned ash-flow sheet in southern Nevada, 1120
- Rib cage, forces deforming, 10238
- Ribbons, gratings and networks of aluminum ribbons as radio reflectors, 16902  
*see also* Service ribbons.
- Ribbons for typewriters, cotton cloth, Tariff Commission reports, 2942, 10110
- Ribonuclease, influence on reflexes of mice in ontogenesis, USSR study, 5028
- Ribonucleic acid:  
masked form of messenger RNA, USSR study, 6539  
tobacco mosaic virus, problem of possibility of infecting animal cells, USSR study, 6486
- Ricardo, O. G. S., displacements of thin-walled cylinder, 17947
- Ricci, Robert C., present and future state of the art in guidance computer memories, 18049
- Ricciardi, Constantine A., stereoscopic angle and its relationship to standard Air Force tests for depth perception, 70
- Ricciuti, Edward R., animals in atomic research, 15977
- Ricciuti, Robert A., industrial heating equipment industry, 10330
- Rice, J. Wade:  
advertising, retail store, 5494  
furniture retailing, bibliography, 15732
- Rice:  
acreage allotments—  
certain producers, etc., reports, 9101, 10571  
1967 crop year, hearings, 9140  
California stocks and movement report, 3074  
foreign agriculture circulars, 3345  
good choice for thrifty family, food value, use, recipes, 10875  
market news, 3837  
supplement, rough rice receipts, 3838  
market summary, 1966, 2135  
marketing excess, delivery to Commodity Credit Corporation, report, 16369  
rough, costs of drying and storing in Louisiana and Texas, 15864  
situation, 4706  
southern, inspected for export, 3885
- Rich, Leslie, it's fun to yell bravo, Lincoln Center's student program opens new world to teenagers, 12465
- Rich, Marvin A., conference on murine leukemia, 1583
- Richard, Herbert L., atmospheric transmission of infrared radiation from 2–5 microns for slant paths from 35,000 ft. to upper limit of atmosphere, survey, 12931
- Richardson, Harry L., small gas turbine engine accessory technology, 10291
- Richardson, John L., mass transfer properties of saline water systems, 2393
- Richardson, P. D., transient radiation and conduction in slotted slab and hollow cylinder, 17941
- Richey, Everett O., threshold distances for retinal burns from low-yield nuclear detonations, 69
- Richland County, N. Dak., soil survey report, 8702
- Richmond, Joseph C., procedures for precise determination of thermal radiation properties, 6921
- Richmond, Va., area wage survey, 8304
- Richmond National Battlefield Park, general information, 2758, 8560
- Richwine, Mrs. M. M., relief, 7658 13788, 14905
- Rickenbacker, Edward V., Tony Jannus award (address), 4368

Ricketts' organism, fluorescent antibodies for rickettsia detection, USSR study, 12666  
 Rickettsia prowazekii, *see* Ricketts' organism.  
 Riekover, Hyman G., testimony, 10630  
 Riddick, Floyd M.:  
     classification of United States Senators, 762  
     enactment of law, procedural steps in legislative process, 13720  
 Rieckmann, R. E., panel attachment mechanisms suitable for refurbishable panel application, 5160  
 Riedinger, A., acid mine water reverse osmosis test at Kittanning, Pa., 4915  
 Riely, Phyllis E., effect of diet and atmosphere on intestinal and skin flora, 2613  
 Riesz, John E., livestock and meat industry of Mexico, 8048  
 Rietz, Raymond C., presurfacing green oak lumber to reduce surface checking, 2301  
 Riffaud, Madeline, Communist reporter, reports her visit to North Vietnam, 1294  
 Rifles:  
     Army, procurement and distribution program—  
         hearing, 10807  
         report, 10810  
     M-16 program—  
         hearings, 17590  
         subcommittee report, 17591  
 Riga, Latvia, travel to, Finnish brochure, 15429  
 Rigby, Malcolm, NODC quarterly accessions, computer produced indexes, 3636  
 Rigdon, Dorothy, rehabilitation record, 17185  
 Riggers, examination announcement, amdt., 203  
 Rigging:  
     airdrop operations, technical manuals—  
         Air Force communication control vehicles, 1771, 7398  
         cargo trailer, 15949  
         CW-BW water pretreatment decontamination set, 10280  
         howitzer, 15950  
         trailer-mounted air compressors, 15951  
         210 CFM Davey, trailer-mounted air compressor, 113  
         typical supply loads, 8887  
         weapons carrier, 10281  
     gear and equipment, safe working loads, technical reference, 9733  
 Rights and responsibilities of recipients of social security retirement or survivor benefits, 7123  
 Rights and responsibilities of those who receive special payments, 15740  
 Rights of privacy, *see* Privacy.  
 Rights-of-way, *see* Roads and highways.  
 Rigid-body motion extracted from total motion of flexible body, 9845  
 Riley, Donald R., comparison of results of 2 simulations employing full-size visual cues for pilot-controlled Gemini-Agena docking, 1495  
 Riley, H. L., mineral industry of Kentucky, 2555  
 Riley, Kathleen E., records relating to enrollment of Eastern Cherokee, pamphlet, 18072  
 Rim, Kwan, integral equation method in plane elasticity, 9819  
 Rinehart, R. W., delineation of trace constituents of closed ecologic system, 7369  
 Ringel, Seymour, command information processing systems, human factors research program, 119  
 Ringelmann smoke chart, *see* Smoke.  
 Rings:  
     NOL glass-filament-wound model for testing measurement, minimization, and correlation with interlaminar shear strength of microvoids in structures, 11677

Rings—Continued  
 toroidal—  
     pressurized, buckling under uniform external loading, 15570  
     prevents gas ignition at vent stack outlet, 9853  
     working blade-rings of turbines, etc., friction and leakage losses, 5277  
 Rio Grande and Valley, water supply outlook and snow surveys, 4045  
 Rio Muni, labor conditions, 5073  
 Riots:  
     civil and criminal disorders, investigation, interim report on findings, 16375  
     insurance protection study availability, hearing, 16402  
     long-range implications of summer disturbances in slums (remarks), 17841  
     penalties for inciting, reports, 12282, 13664, 15165, 16419  
 Ripening of fruit, etc., *see* names of fruits, etc.  
 Riprap:  
     stability under wave action, rock movement in large-scale tests, 16520  
     use for bank protection, 14640  
 RISE, *see* Radioisotope submersible engine.  
 Risk, international sales, buyer's or seller's assumption, Bulgarian discussion, 5013  
 Ritter, Dorothy, hardware retailing, 7113  
 Riva Dominguez, Ramiro de la, *see* Dominguez, Ramiro de la Riva.  
 Rivers:  
     aeration capacity of streams, 9570  
     and harbors, flood control, omnibus bill, 1966, hearings, 751  
     basin operations, institutional arrangements for managing, 17292  
     basin plans, additional authorization, 1968—  
         hearings, 12312, 12427  
         law, 10486  
         reports, 9122, 9208  
     basins, clean water restoration act of 1966, pollution control and abatement, program—  
         law, 12156  
         text, 6340  
     basins, southeastern Michigan water resources study information bulletin, 7929  
     daily weather and river bulletin—  
         Albuquerque, N. Mex., area, 3184  
         Houston, Tex., area, 3185  
         Memphis, Tenn., area, 3180  
         New Orleans, La., area, 3186  
         Shreveport, La., area, 3179  
     doctrine for riverine operations, Marine manual, 8331  
     entrenched stream systems, Harrison County, Iowa, 1722  
     fish habitat characteristics of streams, technique for sampling, 17806  
     flood control and multi-purpose projects  
         public works authorization—  
             law, 493  
             report, 698  
     flood control, improvements, compilation—  
         departmental edition, 1025  
         document edition, 516  
     measurement of peak discharge by indirect method at width contractions, 14176  
     mountain streams, aerial photo techniques for recreation inventory, 14128  
     national and scenic rivers system—  
         hearings, 10855  
         report, 15094  
     Oregon streams, correlation and analysis of water-temperature, 8177  
     physiographic and hydraulic studies (series), 17823

# INDEX 1967

## Rivers—Continued

- radiolotope gauge for monitoring suspended sediment concentration in rivers and streams, 1794
- river basin surveys papers—
  - departmental edition, 11973
  - document edition, 12193
- river-crossing operations, Army field manual, 4208
- river hydraulics (series), 1133
- roughness characteristics of natural channels, 17833
- rules concerning sailing vessels, etc., law, 468
- southeastern Alaska, DDT effects on ecology of salmon streams, 8040
- streambank rehabilitation, waterline erosion control, 14099
- streamflow from small tree-covered and fern-covered and burned watersheds, Hawaii, 8115
- streams, measurement of peak discharge by indirect method, techniques, 11184-185
- temperatures, Pacific Northwest, 3839-40
- USSR, chemical nature of organic matter in waters of major rivers, 9614
- western navigation, rules of the road, 4421
- see also* names of rivers, or places where located.
- Riverside, Calif., area wage survey, 5067
- Rivets, rivet caps and collars, Federal item identification guide, 15186
- RNA, *see* Ribonucleic acid.
- Road machinery:
  - machine-driving of wooden posts, way to reduce highway guardrail costs, 11138
  - maintenance equipment, Federal item identification guides for supply cataloging supplements, 3285
- Road to forest management, 1652
- Roads and highways:
  - access highway through Manitoba to northwest angle of Minnesota, construct, agreement with Province of Manitoba Canada, 2096
  - advance acquisition of rights-of-way study, 17611
  - approach roads, 1960-64, Greenland, 15932
  - bank protection, use of riprap, 14640
  - building Federal highway safety programs (remarks), 5959
  - code of Federal regulations, 6280
  - emergency construction at military installations, general provisions and geometric design, technical manual, 5742
  - Federal-aid highway act of 1966—
    - hearings, errata, 4656
    - report, 638
  - Federal-aid highways, needs after 1972, AASHO report, 12321
  - hearing, 12314
  - print as Senate document, report, 12370
  - Federal aid in construction, laws, compilation, 1988
  - Federal-aid highway program, remarks, 1950, 2844
  - see also* below, Interstate system.
  - Federal-State highway management practices and procedures hearings, 2055
  - flexible pavement design for roads, streets, walks, emergency construction, Army technical manual, 10277
  - freeways, District of Columbia commissioners, authority to lease air space, above, on, and below rights-of-way, hearings, 16407, 17598

## Roads and highways—Continued

- Government programs, safety, beautification, etc., big job ahead (remarks), 8663
- Haines Road, winter maintenance, agreement, 17230
- highway beautification program—
  - authorizations, 1968—
    - hearings, 15174
    - reports, 15126, 16272
  - billboard removal compensation under Highway beautification act of 1965, opinion of Attorney General, 8279
  - highway beautification act of 1965, review, hearings, 12311
  - 1967 program, print as S. doc., report, 4599
  - public participation in State projects, 5477
  - report on costs and economic impact, etc., 6054
  - highway planning notes, 13100
  - highway relocation assistance study, 16340
  - highway research and development studies using Federal aid funds, 2845
- highway safety—
  - act of 1966, amend, report, 16377
  - act of 1966, report, 646
  - ncts, 1966, implementing (remarks), 7567
  - construction requirements, Federal projects, 5473
  - national uniform standards for State programs, 13555
  - Operation 66, joint engineering-enforcement project report, 1594
  - program, 1968 authorizations, hearings, 15174
  - safety and beauty programs, message from the President, 5992
  - standards, report from Transportation Dept., 15048
  - uniform performance standards (remarks), 4453
- highway trust fund, financial condition and operations, annual report, 9059
- highways and human values, 1966 annual report, Public Roads Bureau, 5474
- supplement, 7101
- Interstate system—
  - frontage road near Billings, Mont., justification, Public Roads Bureau, GAO review, 2348
  - location, etc., in metropolitan areas, GAO report, 15299
  - rights-of-way costs, withheld reimbursements, District of Columbia Government, GAO review, 12593
  - toll facilities relationship—
    - hearings, print additional copies, report, 643
    - report, 14989
  - logging road for BLM's Tillamook project, analysis of 2 standards, 11118
  - machine-driving of wooden posts, way to reduce highway guardrail costs, 11138
  - maintenance, engineered performance standards, handbook, 11625
  - overtaking and passing on 2-lane rural highways, literature review, 14641
  - Pan American highway network (remarks), 239
  - public roads, journal of highway research (periodical), 3785, 10071
  - publications, price list, 10038
  - research and development in highway transportation, task and study statements of national program, 8664
  - retaining walls, reinforced concrete, cantilever and counterfort types, typical plans, 18194
  - road inventory manual of instructions, guide, 17177
  - rock cuts, presplitting, controlled blasting technique, 5478
  - scenic roads & parkways, proposed program, 7049



Roads and highways—Continued  
 statistics, 11766, 13101  
 wetland road crossings, drainage problems  
 and timber damage, 14097  
*see also* names of roads or highways.  
 Roane County, W. Va., William Kaufman  
 lease Clover-Rush Run oilfield, reservoir  
 study, 14347  
 Roback, R., rocket engines using gaseous  
 hydrogen, 6719  
 Robbins, Chandler S.:  
   birds and aircraft on Midway Islands,  
   1959-63 investigations, 4809  
   breeding bird survey, 12550  
 Robbins, Otis, Jr., Flathead Lake (Mont.)  
 fishery investigations, 4811  
 Robbins, William M., Jr.:  
   feasibility of orbiting 1500-meter radio-  
   telescope, 11414  
   gratings and networks of ribbons as radio  
   reflectors, 16902  
   spinning paraboloidal tension networks,  
   16903  
 Robert, Alice L., bacterial wilt and Stewarts  
 leaf blight of corn, 5626  
 Roberts, Eugene, toxicologic studies of acute  
 hydrazine toxicity in mice, 4183  
 Roberts, Jean:  
   binocular visual acuity of adults, etc.,  
   13099  
   hearing levels of adults by race, region,  
   etc., United States, 17168  
 Roberts, P. J., industrial evaluation of radia-  
 tion processed wood-plastic composites,  
 5780  
 Roberts, Sean C., XV-11A, description and  
 preliminary flight test, 11997  
 Roberts, T. D., area handbook for Domini-  
 can Republic, 11990  
 Roberts, Travis, annual report for 1966,  
 cooperative fishery units, 16626  
 Roberts, Vendra K., bibliography of publica-  
 tions by Intermountain Forest and Range  
 Experiment Station on genetics and breed-  
 ing of forest trees, 4827  
 Robertson, A. Willis, tributes on birthday  
 and retirement as Senator, 2079  
 Robertson, Eugene C., interior of the earth,  
 elementary description, 1114  
 Robertson, J. B., proton bombardment of  
 high-purity single-crystal silicon, 11534  
 Robertson, J. L.:  
   addresses, etc.—  
   Dec. 5, 1966, 2263  
   July 11, 1967, 12531  
 Robertson, William G.:  
   man during 56-day exposure to oxygen-  
   helium atmosphere, respiratory function,  
   92  
   man in oxygen-helium environment, res-  
   piratory, 80  
 Robie, Richard A., selected X-ray crystallo-  
 graphic data, molar volumes, and densities  
 of minerals and related substances, 17818  
 Robinson, George B., heterodyne phase shifter  
 with inductive delay line pickup provides  
 stepless phase shift, 16977  
 Robinson, Harold, revision of genus *Harmas-  
 tonia* (Diptera, Dolichopodidae), 12999  
 Robinson, James F., making and preserving  
 apple cider, 13222  
 Robots:  
   serve as museum guides, USSR studies,  
   17867  
   underwater electronic, development for  
   ocean research, USSR study, 6568  
   USSR studies, 8246  
*Roccus saxatilis, see* Bass.  
 Rock Creek Park, creek and the city, urban  
 pressures on natural stream, 4913  
 Rock Island, Ill.:  
   area wage survey, 6606  
   bridge across Mississippi River, recon-  
   struction, etc., authorize construction of  
   additional span, report, 2095

Rock Run, Ala., geology and bauxite de-  
 posits, 9561  
 Rocket fuel, *see* Fuel.  
 Rocket propellants, *see* Propellants.  
 Rockets:  
   acoustic oscillation in simulated rocket  
   combustion chambers, mechanical ab-  
   sorption, 5264  
   acoustic prediction methods for rocket  
   engines, 1422  
   Aerobee—  
   150 propulsion failure, causes, etc., 6851  
   sounding, NASA launching for 1964,  
   compendium, 15554  
   Apollo/Saturn V replica model, design  
   and fabrication considerations, 16988  
   atmosphere investigation, methods, 6911  
   axial-flow liquid-core nuclear rocket em-  
   ploying radiation heat transfer, heat-  
   and mass-transfer characteristics, 14497  
   booster, large, propellant dynamics, or-  
   bital investigation, 11517  
   clustered engines and deflected exhaust  
   flow effects, 1422  
   cold solid propellant motor has stop-re-  
   start capability, 6830  
   controlled release device prevents damage  
   from dynamic stresses, 6790  
   cooling motor with injection near throat,  
   6882  
   device measures reaction engine thrust  
   vector deviations, 6804  
   engine asymmetric loads during tests at  
   sea level, elimination, 6831  
   engine vibration accurately measured by  
   photography, 6812  
   engines, storable-propellant, ablative-ma-  
   terial thrust chambers as components,  
   evaluation, 15555  
   exhaust-nozzle performance, computer pro-  
   gram for determining effects of chemical  
   kinetics on, 15575  
   fluorine and fluorine-oxygen mixtures in  
   rocket systems, handling and use, 11425  
   gaseous core nuclear rocket mixing, char-  
   acteristics using cold and arc heated  
   flows, simulation, 12848  
   gaseous-hydrogen-liquid-oxygen combus-  
   tion at supercritical chamber pressures,  
   17001  
   gaseous nuclear engine—  
   radiant heat transfer in fuel region, 5183  
   temperatures, local and average fuel  
   estimates, 16998  
   hot exhaust gases, surface heating rates  
   and pressures, predicting, 6795  
   hydrogen-fluorine engines, regeneratively  
   cooled, heat-transfer study at low cham-  
   ber pressure, 17006  
   M-1 engine subsonic injector tests, 12959  
   M-1 hydrogen-oxygen engine, fuel pump  
   turbine, cold-air performance evalua-  
   tion, 6868  
   meteorological research, agreement with  
   Canada, 5548  
   meteorological rocket network firings, data  
   report (periodical), 1032, 3190  
   near field noise, prediction, 14400  
   nuclear—  
   cold-flow test facility, cooldown char-  
   acteristics of regenerative nozzle  
   used, 11500  
   controls analysis of engine at power  
   range operating conditions, 11525  
   convectively cooled nozzle, design and  
   evaluation, application of digital  
   codes, 5269  
   engines using gaseous, hydrogen at stag-  
   nation temperatures up to 200,000 R.  
   theoretical performance, 6719  
   frequency response and transfer func-  
   tions obtained from analog computer  
   simulation, 11526  
   liquid core, radiant heat transfer, po-  
   tential performance, 18016

Rockets—Continued

- nuclear—continued
  - mapping tungsten-reactor engine as guide to operation and control, 9876
  - tungsten water-moderated, design of regeneratively cooled nozzle, 2729
- proportional solid propellant secondary injection thrust vector control study, 2604
- ramjet and rocket-ramjet hybrid engines, nonconstant area combustion and mixing, analysis, 1478
- Saturn, matrix-Holzer analyses for fully coupled vibrations of clustered launch vehicle configurations, 5158
- Saturn V—
  - launch, far-field acoustic environmental predictions, 16981
  - manned flight to moon, NASA facts, 12878
- screech in hydrogen-oxygen rockets, acoustic liners to suppress, 6870
- single-stage sounding, static stability investigation, 12933
- slosh dynamics study in near zero gravity vehicle description, 11530
- solid control, subliming—
  - phase 1, 8412
  - phase 2, 8413
- solid propellant motors—
  - performance computer programs using group transformation method, 1485
  - structural dynamics, 2611
- sounding rocket vehicle, static stability investigation at Mach numbers from 1.50 to 4.63, 12934
- sounding, techniques (paper), 6913
- static stability, effects of jet pluming, 14467
  - ballistic bodies at Mach number of 6.00, 2691
- Trailblazer I reentry bodies, light-intensity data, summary, 2690
- unguided solid fuel vehicle with solar orbit, earth probe, and re-entry mission capabilities, feasibility and parametric design, 12853
- unmanned, Federal aviation regulations, 10997
- unregulated low-thrust engine, minimum time for Earth-Mars-Earth flight, USSR study, 17881
- X-258 3d-stage motor, performance on Delta 36 (OT-3), 14460
- Rockford, Ill., area wage survey, 14289
- Rockland County, N.Y., population, special census, 8949

Rocks :

- California, central, petrology of sediments underlying areas of land subsidence, 12607
- Cambrian and Ordovician, east-central Alaska, stratigraphy, 6404
- Cambrian and Precambrian of Groom district, Nev., 14169
- common types, trace elements, importance in neutron-induced radioactivity calculations, 1799
- Cretaceous and Tertiary, Corozal Quadrangle, Puerto Rico, 1112
- dielectric constants and dissipation factors for 6 types between 20 and 100 megahertz, 9765
- explosives in rock, performance, methods for studying, 5124
- gravity loaded, stresses and displacements surrounding open pit, 14356
- hydrologic and physical properties as analyzed 1948-60, summary, 8182
- low temperature reaction zones and alpine ultramafic rocks of California, Oregon and Washington, 17817
- Mono Craters quadrangle, Calif., structure and metamorphism, 4887
- outcrops, stresses, near Atlanta, Ga., 1409

Rocks—Continued

- pendulum sclerometer for surface hardness studies, 11381
- permeability curves of concern to oil reservoir engineers, 14360
- Permian units in Glass Mountains, west Texas, nomenclature, etc., 1113
- petrographic methods, use for reexamination of nonmagnetic taconite occurrences, 14346
- petrology—
  - and structure of Precambrian rocks, Central City quadrangle, Colo., 12611
  - Greenville quadrangle, Piscataquis and Somerset Counties, Maine, 16684
  - Morrison formation in Colorado Plateau region, 12613
- porous permeable, for nuclear waste disposal, 9778
- presplitting, controlled blasting technique, 5476
- pressure—
  - deep mine stress determinations using flatjack and borehole deformation methods, 6676
  - stress distribution near explosively expanded rock bolt anchors, 5126
- rock movement in large-scale tests of riprap stability under wave action, 16520
- stress—
  - determinations, anisotropic considerations, 12818
  - ellipsoid determination in rock-burst-prone area, 14351
  - use of 3-component borehole deformation gauge for determining, 15481
- Upper Cretaceous and Tertiary, stratigraphy and regional tectonic implications, east-central San Juan Basin, N. Mex., 16693
- see also Sedimentary rocks.
- Rockwell, T. H., work injuries and accident causes in concrete brick and block industry, 16813
- Rockwell-Standard Corporation, adjustment assistance case pertaining to certain workers, excerpts from Tariff Commission report to Automotive Agreement Adjustment Assistance Board, 1206, 17258
- Rocky Mountain Forest and Range Experiment Station, publications, list, 3515
- Rocky Mountain National Park, general information, 9964
- Rocky Mountains :
  - cherries, growing east of Rocky Mountains, 5628
  - southern and central, site, index table for aspen, 5628
- Rodents, ethology, with emphasis on evolution of social behavior, comparative study, 15603
- Rodgers, William, or heirs, relief, 610
- Rodgin, David W., study of map in oxygen-helium atmosphere, behavior factors, 86
- Rodin, Ervin Y., propagation of waves of finite amplitude in thermoviscous media, 1434
- Rodriguez, Antonio J. F. Senra, see Senra, Antonio J., and wife.
- Rodriguez, Gonzalo G., relief, 12352, 16214, 17515
- Rodriguez, Guillermo, relief, 574
- Rodriguez, Julio Valdes-, see Valdes-Rodriguez, Julio.
- Rodriguez, Olibio S., relief, 339
- Rodriguez, Ubaldo G. Catasus-, see Catasus-Rodriguez, Ubaldo G.
- Rodriguez-Cubas, Fidel, relief, 327, 616, 870
- Rodriguez-Fernandez, Manuel, relief, 10715
- Rodriguez Perez, Ortelio, relief, 535

- Rods:**  
 composite weld rod corrects individual filler weaknesses, 9862  
 yttrium iron garnet, study reveals new magnetostatic echo mode, 12889  
*see also* Ground rods.
- Roe, Arthur L.:**  
 procedure for forecasting western larch seed crops, 4828  
 productivity indicators in western larch forests, 9535
- Roentgenograms, *see* X-rays.**
- Roentgenology, military, Army technical manual, 10279**
- Roethlisberger, Hans, ultrasonic pulse measurements in anisotropic lake ice, 1754**
- Roger Mills County, Okla., Sandstone Creek watershed, hydrologic effects of small reservoirs, 2376**
- Rogers, George B., competitive position of midwestern egg industry, 5651**
- Rogers, James F., staffing American colleges and universities, 7913**
- Rogers, John W., relief, 13732**
- Rogers, Lola E., science teaching in public junior high school, 7909**
- Rogers County, Okla., soil survey report, 1609**
- Rogerson, J. E., airborne field measurements in antipodal region of radio station NPM, Hawaii, 5345**
- Rohl, G. E., effects of jet fuel anti-icing additive on fuel tank linings, 9991**
- Rohrer, Willis L., geology of Adam Wells Peak quadrangle, Hot Springs and Park Counties, Wyo., 2360**
- Rojas-Machado, Miguel A., relief, 9193, 12210, 12143**
- Rojas-Villa, Enrique A., relief, 13742, 16189, 17503**
- Roll:**  
 control of jet VTOL aircraft, free-stream interference effects, 14478  
 stability derivatives of variable-sweep tactical fighter model at subsonic and transonic speeds, 6887
- Roll-bar structure for automotive vehicle, Federal standard, 6333**
- Rolla Jewel Bearing Plant:**  
 change name to William Langer Jewel Bearing Plant—  
   law, 488  
   report, 2091
- Rollag, Norman L., market potentials for frozen dough, 7277**
- Rolling mills, industry manpower survey, 17729**
- Rollstoo, John A., Air Force basic research in high-performance filamentary composites, 15890**
- Romania, *see* Rumania.**
- Rondinelli, Antonina, *see* Asci, Antonina R.**
- Rondo Delgado, Antonio, relief, 323, 869**
- RONDOVU/PRESTO, program for rendezvous mission trajectory optimization, 5179**
- Roofers, safe work guide, 11306**
- Roofing:**  
 asphalt and tar, current industrial reports, 3169, 5854  
 farm buildings, general information, 13223  
 thermal-shock resistance for built-up membranes, 15584
- Rooms, clean rooms and work stations, NASA standards for microbially controlled environment, 15522**
- Roosevelt County, Mont.:**  
 tribal land, transfer of title—  
   law, 12166  
   reports, 10579, 12361
- Roosevelt County, N. Mex., soil survey report, 11810**
- Root, Robert T., analysis of interpreter-computer reporting techniques, 7403**
- Root River, water pollution, control, etc., hearing, 738**
- Roots:**  
 distribution in different soil types, Pine Barrens, New Jersey, 6408  
 pruning, mahogany nursery stock, 12572
- Rope:**  
 Federal item identification guides for supply cataloging, supplements, 3287  
 types, selection, characteristics, etc., and preparation for use on farm, 4103
- Roper, Clyde F. E., reviews of Valybeuthidae and evaluation of its relationship with Chlorteuthidae, etc., 14538**
- Roper, Willard, nomination, hearing, 16433**
- Rose, Donald J., rounding error bounds by perturbation-condition analysis, 16978**
- Rosen, Joseph S., approximate solution of Runge-Kutta equations, 15563**
- Rosenbaum, Richard C.:**  
 digital computer program for trajectory optimization, 6717  
 PRESTO version delta, 5178A
- RONDOVU/PRESTO, program for rendezvous mission optimization, 5179**
- Rosenberg, Ronald C., computer-aided teaching of dynamic system behavior, 62**
- Rosennecker, Charles N., power required to circulate gas-solids suspensions, 15483**
- Rosenstock, Herbert B., magnetically induced nonequilibrium electron temperatures, 9995**
- Roses, production and sales, etc., 10108**
- Roshore, Edwin C.:**  
 durability and behavior of prestressed concrete beams, investigation, 9424  
 freezing-and-thawing tests of concretes of various strengths and air contents, 13986  
 investigation of performance of concrete and concreting materials exposed to natural weathering, 6214
- Rosin, *see* Naval stores.**
- Rosofsky, Rose G., earnings mobility of MDTA trainees, 11296**
- Ross, Donald C., stratigraphy of Paleozoic formations in Independence quadrangle, Calif., 2364**
- Ross, Jack S., feed statistics through 1966, feed grains, corn, etc., 17333**
- Ross, Reuben J., jr.:**  
 calymenid and other Ordovician trilobites from Kentucky and Ohio, 16698  
 Middle Ordovician brachiopods, etc., from basin ranges, 11174
- Ross, W. James, soil survey of Roosevelt County, N. Mex., 11810**
- Rosa Lake National Recreation Area:**  
 establish—  
   hearings, 15163  
   report, 17631
- Rossettos, John N., deformation of shallow spherical sandwich shells under local loading, 6895**
- Rossi, Maria, relief, 256, 859**
- Rossing, Robert G., computer solution of exponential decay or washout curves, 15894**
- Rossow, Vernon J., time-dependent structure of one-dimensional magnetic compression waves in collisionless plasmas, oblique ambient magnetic field, 11508**
- Rosters, National Cancer Institute, staff, advisory bodies, and consultants, 7089**  
*see also* names of departments, etc., issuing rosters.
- Rostow, Eugene V., address, Sept. 11, 1967, 18232**
- Roswell, N. Mex., brackish water conversion demonstration plant, report, 16718**
- Rot, lodgepole pine butts, potential hazard in recreational areas, 1093**  
*see also* name of rot.
- Rotation, Army manpower rotation policy, models, 7404**
- ROTC, *see* Reserve Officers' Training Corps, Navy.**

# INDEX 1967

- Roth, Emanuel M.:  
 space-cabin atmospheres—  
 engineering tradeoffs of one-vs. 2-gas  
 systems, 12879  
 physiological factors of inert gases,  
 9823
- Roth, J. Reece, plasma stability and Bohr-  
 van Leeuwen theorem, 8495
- Roth, Rodris, floor coverings in 18th century  
 America, 14530
- Roth, William M.,  
 addresses, etc.—  
 July 7, 1967, 14663  
 Oct. 10, 1967, 18219  
 Oct. 31, 1967, 18220  
 nomination, hearing, 6107
- Rothe, W. E., encasement for emergency den-  
 tal kit for use on space missions, 17353
- Rothermel, Richard C., fire spread charac-  
 teristics determined in laboratory, 4847
- Rotocraft:  
 airworthiness standards—  
 normal category, Federal aviation regu-  
 lations, 14003  
 transport category, Federal aviation  
 regulations, 4757, 12493
- Rotors:  
 air loads, blade motion, and stress caused  
 by transient inputs of shaft torque as  
 related to stoppable rotor operation,  
 13308  
 comparison of flight-measured chordwise  
 distributions with static 2-dimensional  
 airfoil characteristics, 11502  
 helicopter hingless rotor system, struc-  
 tural loads encountered, exploratory  
 flight investigation and analysis, 1487  
 helicopter rotor noise reduction, tip vor-  
 tex core thickening, application, 4220  
 hot cycle system—  
 heavy lift helicopter, preliminary  
 design, 10288  
 tether test and teardown inspection,  
 results, 7410  
 hovering performance characteristics with  
 and without blade-pitch servo-control  
 flaps, 5260  
 inlet flow conditions, use of variable-  
 geometry guide vanes to control, 5275  
 performance, generalized, 7411  
 propeller-rotor whirl flutter, review,  
 12971  
 rings, high reluctance, improve homopolar  
 generator performance, 5153  
 rotor-bearing systems, dynamic stability,  
 1439  
 rotor blade of rotor entry vehicle model,  
 heat-transfer measurements, 12965  
 transient blade motions of rotor with  
 flapping and lead-lag degrees of freedom,  
 numerical method for studying, 17010  
 UH-1 helicopters tail rotor, laminated  
 elastomeric bearings, evaluation, 17389
- Rough Rock Demonstration School, giving  
 education back to the Indians, 9400
- Roughness, *see* Land.
- Roughness characteristics of natural chan-  
 nels, 17833
- Roumasset, Charles A., Negro in the West,  
 15453
- Rounding error bounds by perturbation-  
 condition analysis, 16978
- Rounds, Donald E., photoactivation of  
 smooth muscle with ruby laser, 17362
- Rounsefell, George A., red-tide research  
 summarized to 1964 including annotated  
 bibliography, 9520
- Rous sarcoma virus, *see* Viruses.
- Rouse, Carl A., accurate and stable numerical  
 solutions to Schrödinger equation, 17090
- Rouse, George C., vibration studies of Mon-  
 tcelio Dam, 17181
- Route reconnaissance and classification, 1757
- Routh, Guy, review essay, evolution of an  
 economist, 6616
- Rowland, James A., platinum-group metals,  
 5122
- Rowland's preliminary table of solar spec-  
 trum wavelengths revision, 1522
- Rowntree, R., EXIM bank, export financing,  
 6232
- Roy, Douglass F.:  
 silvical characteristics—  
 Monterey pine, 8113  
 redwood, 4853
- Roy, John W., relief of estate, 269, 806
- Roy, Rob., system identification and pattern  
 recognition, 9810
- RSFSR, *see* Russian Soviet Federated So-  
 cialist Republic
- Rnark, Arthur E., how to understand  
 special relativity, 13346
- Rubber:  
 crystallization of natural rubber (lecture),  
 9935  
 infrared spectra of elastomers, 15636  
 rubber-processing chemicals, production  
 and sales, 15807  
 supply and distribution for U.S., current  
 industrial reports, 3169, 12078  
 working machinery, industrial plant  
 equipment handbook, 7849
- Rubber hose, *see* Hose.
- Rubenfeld, Seymour, typological approaches  
 and delinquency control, status report,  
 17166
- Rubeola, *see* Measles.
- Rubino, Guiseppe, relief, 540
- Rubio Madariaga, Adela A., relief, 13750
- Ruby Lake National Wildlife Refuge, gen-  
 eral information, 15261
- Ruby laser, use for photoactivation of  
 smooth muscle, 17362
- Ruchwarger, Abraham, relief, 16179
- Rudduck, R. C., aperture reflection coeffi-  
 cient of parallelplate waveguide by wedge  
 diffraction analysis, 14382
- Rudgers, Anthony J., evaluating formulas  
 describing reflection of acoustic waves by  
 elastic spheres, 14594
- Rudolf, Paul O.:  
 botanical and commercial range of—  
 balsam fir in Lake States, 8069  
 tamarack in Lake States, 8070
- Ruehle, John L., distribution of plant-parasitic  
 nematodes associated with forest  
 trees of world, 16645
- Rugs:  
 current industrial reports, 4338, 8945,  
 13393  
 Wilton, Brussels, etc., Tariff Commission  
 report, 15808
- Ruhe, Robert V., landscape evolution and  
 soil formation in southwestern Iowa,  
 14763
- Ruiz del Castillo, Antonio Martin, *see* Martin
- Ruiz del Castillo, Antonio.
- Ruiz-Montalvo, Irma S., relief, 12357
- Rule, Richard H., making basements dry,  
 1698
- Rules, *see* House of Representatives—*also*  
 names of courts, commissions, etc., issuing  
 rules—*also* subjects.
- Rules and Administration Committee, Sen-  
 ate:  
 calendar, 3502  
 committee print, 4659  
 hearings, 961, 13884  
 investigations and studies—  
 privileges and elections, expenses, report,  
 4611  
 standing rules of Senate, authorization,  
 report, 4612  
 reports, 896, 916-917, 2098, 4595, 4597-  
 4612, 4614-27, 6069-77, 6079-84, 9250,  
 9274-76, 9278, 10741, 10781-789,  
 12369-374, 13791, 13817-820, 15083,  
 15098-100, 15108, 15135-142, 16362-  
 363, 16359

Rules Committee, House:  
 committee print, 4559  
 funds, providing, report, 10582  
 hearings, 752, 6042, 7754  
 reports, 620-623, 630-634, 648, 651, 653-658, 665, 673-674, 676-677, 694-698, 700, 2013-14, 2019, 4500, 4518-19, 6008-9, 6013-23, 7663, 7667, 7671-72, 7708, 7710-11, 7716-18, 9085, 9098, 9106-7, 9109, 9116, 9123-26, 10556-557, 10571-572, 10575, 10598-599, 10604, 12245-246, 12248-249, 12263-264, 12267, 12274, 12277, 12281, 13636, 13642-643, 13661, 13664, 13674-676, 13682, 13685-688, 14951, 14954-956, 14959, 14964, 14973-974, 14982-983, 16245-247, 16256-257, 16278-280, 16285, 17574, 17579, 17582

Rules of practice and rules relating to investigations, 11783

Rules of the road:  
 Great Lakes, 221  
 western rivers, 4421

Rum, denatured, distribution and use, code of Federal regulations, 8222

Rumania:  
 astronomic observatory, Rumanian Academy of Sciences, activities, 1290  
 biological research, recent developments, 9671  
 Central Institute of Agricultural Research, activities, 1221  
 children's health protection problems, 15361  
 claims of—  
 American nationals, timely determination, hearing, 12300  
 inhabitants, payment, hearing, 732  
 Cluj City area, radioactivity of vegetation, studies, 1299  
 contributions to endocrinology, 14260  
 cultural relations, agreement, 11869  
 diplomatic courier visas, amending agreement, 15789  
 endocrinology, new horizons, 14216  
 Fundulea Agricultural Research Institute, activities, 10th anniversary, 9612  
 geological operations, planning, financing, and performance, 11252  
 health situation, 1240  
 higher education for scientific research, role, 14223  
 mathematical statistical center activities, 1195  
 mineral industry, minerals yearbook chapter, 6665  
 National Congress on Stomatology, proceedings, 12732  
 pharmaceutical development, 15391  
 principle of prophylaxis in health protection, 1160  
 scientific information and documentation, dissemination described, 14222  
 scientific research, economic efficiency of, 15381

2d National Symposium on Genetics, meetings, 12703

Socialist Republic Council of Ministers, decision on planning, financing, and execution of geological work, 12735  
 study mission report, 7809  
 Union of Medical Science Societies, conference results reported, 14274

Rumker LAC 23, lunar chart, 10226

Run numbering system for use with data recorders, 12918

Runge-Kutta method, *see* Equations.

Runningawayness, 8045

Runoff, exposure and logging effect on, 9537

Runways (aeronautics):  
 high intensity lighting system, 12499  
 snow construction, role of sintering, 15930

Rupes Altai, LAC 96, lunar chart, 7322

Ruppert, John A., refining iron-contaminated sludge by filtration and centrifugation, 5125

Rural communities:  
 build new rural America (remarks), 13239  
 career opportunities, career with Farmers Home Administration in building new rural America, 1036  
 civil defense, knowledge for survival, Federal Extension Service program, 3463  
 consumer expenditure and income 1960-61—  
 rural farms, tables, 2522  
 rural nonfarm areas, tables, 2493  
 total urban and rural, tables, 2494  
 cooperatives and rural-urban balance (remarks), 13220  
 Farmers Home Administration strengthens, 5670  
 interlocal governmental cooperation, study of 5 States, 13942  
 issue of rural development, communities of tomorrow (address), 4108  
 need for rural-urban balance (address), 7280  
 rental & co-op housing loans, 10194  
 rural opportunities, war on poverty (periodical), 3842  
 rural people in American economy, 983  
 rural poor, aspirations and expectations, guide to research, 17710  
 rural poverty, hearings before National Advisory Commission on Rural Poverty, 15668, 17126-127  
 small towns and rural groups, Oklahoma, financial assistance for water systems and waste disposal systems, questions and answers, 7945  
 statistical summary, rural areas development and area redevelopment, quarterly progress report, 3903  
 VISTA serves rural America, 6168  
*see also* Country life.

Rural Community Development Service, appropriations, 1968, hearings, 10629

Rural conditions, *see* Country life.

Rural development program:  
 Asia, hearings, 7745, 13705  
 community development district act of 1966, planning of public services, etc., report, 622  
 community development district act of 1967, planning of public services, etc., report, 10748  
 industrialization in Ozarks, case study, 17711  
 issue of rural development, communities of tomorrow (address), 4108  
 newsletter, 3841  
 Project Seesaw, beginning for rural disadvantaged in Louisiana, 8284  
 rural youth clubs around world, handbook for developing programs, 16570

Rural Electric Bank:  
 establish—  
 hearings, 10625  
 report, 13659

Rural electricity, *see* Electricity.

Rural Electrification Administration:  
 annual report, 11778  
 appropriations, 1968, hearings, 10629, 12397  
 materials acceptable on—  
 electrifications systems, list, 3512  
 telephone systems, list, 3513

REA borrowers—  
 electrification systems, materials acceptable for use, list, 8672, 17187  
 energy purchased, 1966, report, 10074  
 telephone systems, list of materials acceptable, 13111

RDA bulletins, 1597, 7105, 10074, 17189-190, 18200

REA programs, financing, supplemental, hearings, 938  
 statistical bulletin, quarterly, 3800-1

# INDEX 1967

- Rural Electrification Administration—Con.  
statistical report—  
rural electrification borrowers, 18199  
rural telephone borrowers, 2849
- Rural families, *see* Families.  
Rural housing, *see* Housing.  
Rural life, *see* Country life.  
Rural mail carriers, *see* Mail carriers.  
Rural population, potential supply and replacement of rural males of labor force age, 1721  
Rural poverty, *see* Poverty.  
Rural Poverty, National Advisory Commission on, *see* National Advisory Commission on Rural Poverty.  
Rural redevelopment:  
renewal authority under Bankhead-Jones farm tenant act, broaden—  
law, 500  
report, 910  
statistical summary, rural arena development and area redevelopment, quarterly progress report, 3903  
Rural social science, *see* Sociology.  
Rural Telephone Bank:  
establish—  
hearings, 10625, 17585  
report, 13659  
Rural telephone programs, *see* Telephone.  
Rural workers, *see* Farm labor.  
Rural youth, *see* Youth.  
Rural zoning, why and how, 15838  
Rush-Bagot Agreement Days:  
designate, Apr. 28–29, 1967—  
law, 10481  
report, 9290  
Rusk, Dean:  
addressee, etc.—  
Aug. 25, 1966, 1628  
Sept. 21, 1966, 1629  
Oct. 12, 1966, 2882  
discussion from news conference, Oct. 12, 1967, 18229  
Rusk, Willard H., relief, 16176  
Russell, Charles M., National Wildlife Range, *see* Charles M. Russell National Wildlife Range.  
Russell, G. M., market information on electronic products in Australia, 16105  
Russell, Graham, hollow cathode plasma penetration study, 2612  
Russell, Harold, remarks, Sept. 27, 1967, 17125  
Russell, Joe L., Negro's occupational progress, 16829  
Russell Cave National Monument, general information, 5320  
Russfield, Agnes B., tumors of endocrine glands and secondary sex organs, 2841  
Russia, *see* Union of Soviet Socialist Republics.  
Russian accessions, Library of Congress monthly index, 3575  
Russian language, USAFI study guide, 974  
Russian River:  
flood control, etc., engineer report—  
departmental edition, 4737  
document edition, 4476  
Russian Soviet Federated Socialist Republic:  
oncological service, improving, 2477  
public education, USSR study, 12761  
Russo, Michael, area vocational schools, 4707  
Rust (plant diseases), *see* Fusiform rust—  
Limb rust—Sweetfern blister rust.  
Rutabagas, production, 4111  
Ruth, William M., address, Oct. 5, 1967, 18218  
Ruthenium, sliding friction, 15578  
Ruzicka, Jerome E., damping of structural composites with viscoelastic shear-damping mechanisms, 6728  
Rwanda:  
background notes, 15760  
Burundi boundary, study, 1632  
labor conditions, 8320  
R legend, FDA manual for pharmacists, 6360  
Ryan, Elizabeth, request oriented information selection program, 8506  
Ryan, J. Patrick:  
gold, 6634  
silver, 2589  
Ryan, Margaret F., psychology, bibliography, 11950  
Ryan, Michael J., indirect calorimetry in low pressure environments, 11957  
Rye:  
crop production, 2938  
futures—  
commitments of traders, 3112  
trading and open contracts, 3368  
Ryerson, C. M., diode reliability prediction technique, 6720  
Ryker, Russell A.:  
herbicides fail to insure success of brush-field prescribed burn, 6366  
thinning and fertilizing increase growth in western white pine seed production area, 6367  
Rynearson, Garn A.:  
mineral industry of—  
Brazil, 16857  
British Guiana, 14330  
Surinam, 8366  
Ryukyu Islands:  
appropriations, 1967, law, 405  
appropriations, 1968, hearings, 15014  
bibliography, 10267  
economic and social development, increase appropriations—  
hearings, 16309  
report, 16281  
military personnel of U.S. Army ordered to helpful hints, DA pamphlet, 7388
- S**
- S.A.M., *see* School of Aerospace Medicine.  
S.B.A., *see* Small Business Administration.  
S.C.S., *see* Soil Conservation Service.  
S.E.C., *see* Securities and Exchange Commission.  
Sand, George J., relief, 544  
Saalfeld, F. E., gas-chromatographic-mass spectrometric methods of analysis, 13033  
Saari, J. M., isothermal and isophotic atlas of moon contours through lunation, 16894  
Saghir, Aaron, construction review, monthly industry report, 3139  
Sabo, J. J., scientific information retrieval system for research grants, Division of Radiological Health, 7064  
Sabotage, laws, compilation, 1987  
Sac and Fox Indians:  
judgment funds, disposition—  
law, 16136  
reports, 14950, 15119  
Sackley, Arthur, long-term trends in urban teachers' compensation, 5080  
Sacks, Alvin H., aerodynamics of slender wing-body combinations exhibiting leading-edge separation, 8415  
Sacks, *see* Bags.  
Sacramento Valley Canal unit, *see* Central Valley project.  
Sacramento Valley National Wildlife Refuge, and others in area, mammals, list, 8030  
Safe lifting, 6601  
Safety at sea, *see* Safety of life.  
Safety equipment and appliances:  
construction safety requirements, Federal highway projects, 5473  
door latches and hinges for automotive vehicles, Federal standard, 6319  
safety in industry, instructor outline, personnel protective equipment, 8298  
Safety in the air, *see* Safety of life.  
Safety inspectors, examination announcement, amdt., 1915



Safety of Air Navigation in Africa and Madagascar Agency, air transport services for United States Government aircraft, agreement, 15781

Safety of life:

aerospace maintenance safety, 2992  
air safety—  
aerospace safety (periodical), 2993  
aircraft basic restraint systems, functional comparison, 17413  
civil aviation (remarks), 18092  
decompression hazards in small pressurized aircraft, 17414  
emergency evacuation tests of crashed L-1649, 10321  
emergency procedures over water, 3016  
low-level operational hazards, 4223  
naval aviation safety review, 3036  
night flying of helicopters over mountains, guidance systems tested, 8089  
shoulder restraint installation in general aviation aircraft, recommendations, 7446  
violation investigation and reporting, FAA handbook, 2233  
AMC safety manual, 14789, 15929  
Army Security Agency command safety program manual, 15934  
at sea, disclosure of and upgrading safety standards—  
hearings, 744  
law, 481  
at sea, International convention, 1960, amendments—  
report, 7773  
text, 6062  
at sea, rectification to certain annexes to convention between U.S. and other governments, 15792  
atomic energy program—  
fast reactor transient response and safety in selected accidents, 5772  
fission product nuclides, identification for radiological dose calculations, following reactor accident, 13349  
licensing of power reactors, 10309  
low-level radioactive waste containers in accident environment, investigation, 8909  
nuclear criticality safety, attitudes, past and future (remarks), 1813  
routine surveillance of radioactivity around nuclear facilities, 7065  
child protection act of 1966—  
hearings, 2112  
law, 466  
Coast Guard Auxiliary examination program, courtesy examiners handbook, 5947  
conducting job hazard analysis, 16799  
construction industry work guides, 11302-306  
construction of radiation-safe structures investigated, USSR study, 6523  
construction safety requirements, Federal highway projects, 5473  
critical parameters of fissionable materials systems, and nuclear safety, USSR book excerpts, 15408  
development of safety movement, industrial revolution, early legislation, etc., 9698, 16809  
drownproofing can save your life, 1718  
drug safety, hearings, 2047  
print additional copies, report, 644  
electrostatic hazards in fluid system, test instrumentation for evaluating, 11474  
elements of safety program, occupational safety aid, 9699, 16800  
environmental aspects of hospital, safety fundamentals, 15690  
families on guard against accidents, 18163  
farmers' checklist for pesticide safety, 5668

Safety of life—Continued

farms, National Safety Week, keep your sights on safety, safe use of firearms, facts, 10187  
FDA's life protection series, 9522-23, 12561-562, 15272  
Federal Fire Council film library, list, 14164  
Federal Item Identification guides for supply cataloging, supplements, 3287  
fire research and safety act of 1967—  
hearings, 10825, 13715  
reports, 14934, 15103, 16257  
general requirements, Army Engineers Corps manual, 10956  
good housekeeping for successful safety program, occupational safety aid, 12766, 16801  
highway safety—  
act of 1966—  
amend, report, 16377  
report, 646  
action program, 3 phases of control for safety (address), 4423  
everybody's business (remarks), 5475  
legislation, 89th Congress (remarks), 1952  
national uniform standards for State programs, 13555  
Operation 66, joint engineering-enforcement project report, study, 1594  
overtaking and passing on 2-lane rural highways, 14641  
program, 1968, authorizations, hearings, 15174  
program standards, reports, 14524, 15048  
State program (remarks), 1963  
transition (remarks), 1940  
what can be done about its many problems (remarks), 5959  
how safe is our food? 9523  
hurricane safety rules, 16534  
ILO recommendations concerning conditions of employment of young persons in underground mines, 16160  
industrial safe practices—  
drill presses, 9726  
electrical equipment, 9724  
grinding wheels, 9723  
hand trucks, 9721  
ladders, 9725  
power trucks, 9722  
industrial safety in construction industry (series), 1357  
industrial safety in D.C., amend law—  
hearings, 16320  
report, 16296  
inspecting for safe use of portable electric equipment, 6602  
inspecting for safety, 9702, 16803  
interstate natural gas pipelines, hearings, 6093  
Labor Dept. safety programs—  
chemical safety data sheet, CDS LS series, 9682-83  
off the job safety, OJS LS series, 16810  
Labor Dept. training programs—  
how to inspect chart, HTIC LS series, 9684-95, 11308  
effective use suggestions, 11307  
occupational safety aid, OSA LS series, 6601, 9697-9720, 12766, 16798-809  
occupational safety charts, 9721-27  
student reference, SR LS series, 6602, 9731-32  
technical reference, TR LS series, 9733-41  
longshoremen, suggested safe practices, 12767  
marine safety and seamen's welfare act of 1967, draft bill, supplement, 16404  
maritime safety digest (periodical), shipyards, 3542  
meaningful protection for American traveling public (remarks), 6258

## Safety of life—Continued

measures for providing safe working conditions during caisson operations described, USSR study, 6524

mine safety—  
 Federal coal mine safety act as amended, title 1 and title 2, text, 16852  
 Federal metal and nonmetallic mine safety act, report, 647  
 poor safety measures and work methods at USSR mines, 2478  
 mineral industries, injury experience, employment and worktime, 8342, 15465

motor vehicle safety—  
 defect recall campaigns reported by manufacturers, 18086  
 initial Federal safety standards, Jan. 31, 1967, report on development, 9024  
 responsibility act of District of Columbia, amend, report, 17623  
 standard safety devices, Federal standard, 4796

motorcycling fun and personal protection, 17174

natural gas pipeline regulations, hearings, 16403

notice to mariners, 3641, 7007

nuclear and safety experience analysis, summary and conclusions, 12007

nuclear power plants, operating and safety experience analysis review, 13327

nuclear safety, quarterly technical progress review, 3645

office safety, occupational safety aid, 9703

pleasure craft, safety suggestions, 220

preventive maintenance as an aid to safety, 9720

promoting worker interest, 9704

protection of human life from drugs, 12562

public safety agency employment data, hearings, 16325

publications, price list, 17135

radiography license applications, guide, 15357

reclamation safety news (periodical), 3811

recreational boating safety, hearing, 17603

safe lifting, 6601

safe practices, chart, freight elevators, 9727

safe working loads of rigging gear and equipment, technical reference, 9733

safeguarding machinery, occupational safety aid, 9705

safety aboard ship, 5091

safety and special radio services, FCC applications and actions, 3269

safety committee activities, 9715, 16806

safety digest, AMC pamphlet, 3843

safety engineering in painting and varnishing shops, USSR book excerpts, 15363

safety in industry, instructor outline—  
 accident investigations and records, 8291  
 construction safety, site clearing, 17887  
 consultative approach for safety promotion, 16797  
 fire and explosion prevention and protection, 8295  
 handling materials safely, 9681  
 housekeeping for safety, 6599  
 illumination for safety, 8296  
 inspection procedures, 8290  
 job hazard analysis, 14280  
 personal protective equipment, 8298  
 planning layout and arrangement for safety, 8292  
 preventive maintenance for safety, 8293  
 promoting worker interest in safety, 8288  
 responsibility for safety, 8287  
 safe working surfaces, 8294

## Safety of life—Continued

safety in industry, instructor outline—  
 continued  
 safety organization, 8289  
 use of color for safety, 8297

safety in industry, maritime safety data for shipyarda shipboard ventilation for hazardous atmospheres, 8299

safety of large volume parenteral solutions, national symposium proceedings, 15275

safety precautions for explosive-loaded items, military standard, 13923

safety program projects, suggestions, 9706

safety review, Navy Department (periodical), 3844

safety standards (periodical), 3845

safety standards activity, 1965 highlights of occupational standards and codes, 2490

safety standards, occupational safety aid, 9707

safety training techniques in the classroom, 9716, 16807

ship repairing regulations, 9728

shipbreaking regulations, 9729

shipbuilding regulations, 9730

space flight safety, survey, 9171

spacecraft test personnel, use of remotely operated high pressure valve to protect, 15551

State safety code activity, 1965-66, highlights, 6600

State safety code comparison studies, 5053

supervisory responsibility for safety, 9717, 16808

tire research related to safety (lecture), 9946

tornado safety rules, 7938, 13992

traffic and motor vehicle safety act of 1966, report, 645

traffic safety act of 1966, amend relative to application to limited production of motor vehicles, hearing, 17647

traffic safety, Federal role, hearings, appendix, 9315

water safety, tips in, on, and around water, 15709

worker interest, promoting, occupational safety aid, 16804

Safety officers, mineral industries, examination announcement, 4392

Safety Patrol Week, see National School Safety Patrol Week.

Sagan, Hans:  
 dynamic programming and Pontryagin's maximum principle, 14387  
 Lagrange problems with variable endpoint as optimal control problems, 14386

Saguaro, description, growth characteristics, etc., 8561

Saguaro National Monument, general information, 8561

Sabil Susah coastal area, surface water and related climate features, 11189

Sahni, Roop C., prediction of ground, ionized and excited states of unknown NF molecule, 5181

Sailing directions:  
 Africa—  
 northwest, change, 7001, 17071  
 southeast coast, change, 9970, 18096

Australia—  
 East coast, change, 11636  
 south coast, change, 11637

Raffin Bay and Davis Strait, 9968

Baltic Sea, change, 5328

Bay of Bengal, 5329

British Columbia, change, 13018

Central America and Mexico, east coasts, change, 9969

China, change, 15630

England and Wales, west coasts, change, 8570

England, east coast, change, 11634

France, north coast, 13022

Sailing directions—Continued  
 Greenland, east, and Iceland, change, 14571  
 India, west coast, 17073  
 Indian Ocean, south, change, 14575  
 Japan, northern part, change, 2771  
 Kattegat and The Sound, change, 17070  
 Labrador and Hudson Bay, 13020  
 Malacca Strait and Sumatra, changes, 14576  
 Mediterranean, changes, 15627-628, 11635, 17072, 18097  
 Mexico and Central America, west coasts, 6998  
     change, 15625  
 New Zealand, change, 18098  
 North Sea, eastern shores, change, 6999  
 Norway—  
     northwest and north coasts, change, 14573  
     southwest coast, change, 7000  
 Pacific Islands, change, 11638  
 Philippine Islands, change, 7002, 8571, 15629  
 Portugal, west coast, change, 7001, 17071  
 Red Sea and Gulf of Aden, etc., 9971  
 St. Lawrence Gulf and River, change, 13019  
 Siberia—  
     east coast, change, 14577  
     southeast coast, and Korea, change, 11640  
 Skagerrak, northern and eastern, change, 13023  
 Soenda Strait and western and northeast coasts of Borneo, change, 5330  
 South America, changes, 13021, 11633  
 South China Sea, western shores—  
     change, 7003, 11639  
     Singapore Strait to Hong Kong, 17074  
 Spain, west coast, change, 7001, 17071  
 USSR, northern, change, 14574, 15626  
 West Indies, change, 14572, 17069  
 Sailing vessels, inland, Great Lakes and western rivers rules, amend, law, 468  
 Sailors:  
     civil relief act of 1940 and amendments, compilation, 1994  
     exempt from coverage under annual and sick leave act of 1951, hearing, 4553  
     Federal seafaring, additional leave, law, 459  
     marine safety and seamen's welfare act of 1967, draft bill, supplement, 16404  
     wages, hours of work on board ship, and manning, recommendations of ILO convention, withdrawal of treaty, text, 15064  
 St. Christopher, *see* Leeward Islands.  
 St. Clair, Hillary W., developing thermochemical model for iron blast furnace, etc., 14334, 17915  
 St. Croix, V.I., height growth of mahogany seedlings, 12575  
 St. Croix River, Maine to Little River, S.C., 14877  
 St. Francis County, Ark., soil survey report, 2875  
 St. Francis River:  
     basin, local cooperation requirements, engineer report—  
         departmental edition, 6207  
         document edition, 6058  
 Saint-Gaudens National Historic Site, general information, 6985  
 St. George, R. A., protecting log cabins, rustic work and unseasoned wood from injurious insects in eastern United States, 5627  
 St. Helena Island, decapod crustaceans, 6945  
 St. Lawrence Gulf, sailing directions, change, 13019  
 St. Lawrence River and Valley:  
     sailing directions, change, 13019  
     seaway—  
         concrete in locks, investigation, 13987

St. Lawrence River and Valley—Continued  
     seaway—continued  
         rehabilitate navigation locks, hearings, 17676  
         tolls for Montreal/Lake Ontario section, lockage fee on Welland Canal, agreement with Canada, 11872  
         traffic report, 8673  
 St. Lawrence Seaway Authority, traffic report of St. Lawrence Seaway, 8673  
 St. Lawrence Seaway Development Corporation:  
     appropriations, 1967, law, 403  
     annual report, 1966—  
         departmental edition, 17191  
         document edition, 16162  
     capitalization, conversion of revenue bonds into capital stock, etc., hearings, 17676  
     press releases, 3758  
     rehabilitate navigation locks of seaway, hearings, 17676  
     traffic report of St. Lawrence Seaway, 8673  
 St. Louis, Ill., area wage survey, 8306  
 St. Louis, Mo.:  
     air pollution study, 5438-42, 11739  
     air quality management (paper), 11716  
     area wage survey, 8306  
     Mississippi River and tributaries in district, stages and discharges, 13982  
 St. Lucie Inlet:  
     engineer report—  
         departmental edition, 4738  
         document edition, 4471  
 St. Marks National Wildlife Refuge, birds, list, 11079  
 St. Marys Falls Canal, lake commerce passing through canals at Sault Ste. Marie, Mich. and Ontario, 6208  
 St. Paul, Minn.:  
     area wage survey, 11313  
     motor carrier accident, 4928  
 St. Petersburg, Fla., area wage survey, 2505  
 St. Vincent, Peace Corps volunteers, agreements, 11853  
 Saker, Alexander F., relief, 303, 592, 866  
 Salad dressing:  
     and related products—  
         current industrial reports, 12079  
         industry reports, 145-146, 12028  
 Salar de Atacama Basin, geology and ground-water resources of northern part, Antofagasta Province, Chile, 11164  
 Salaries:  
     compensation expenditures and payroll hours—  
         motor passenger transportation industries, 17893  
         pipeline industry, 11310  
     District of Columbia—  
         firemen, increase, law, 514  
         police, increase, law, 514  
         teachers, school officers, etc., increase, law, 514  
     Federal classified and postal employees, 1945-66 increases, 4556  
     Government officials and employees—  
         bimonthly statistics, 2985  
         classification laws, compilation, 1980  
     Federal personnel manual supplement, 3305  
     hazardous duty differential, increase, report, 9295  
     increase, message from the President, 9069  
     pay structure of Federal civil service, 16081  
     salary act of 1967, hearings, 12310, 17671  
     salary supplement to examination announcements, 4408, 5937, 10433  
     statutory systems, annual report, appendix, 10692  
     long-term trends in urban teachers' compensation, 5080

Salaries—Continued

- nonproduction employees, white-collar pay supplements, employer expenditures in private industry, 6620
- occupations in services for the blind, 2499
- professional, administrative, technical, and clerical pay, national survey, 2507
- scientist in United States, 5326
- severance benefits, payment to former Foreign Service officers of State Department, GAO report, 4873
- Smithsonian Institution executive positions, rates of compensation, establish, law, 447
- State employment security agencies, Georgia employment security agency, ensure salary comparability, procedures, need for strengthening, Employment Security Bureau, Labor Dept., GAO report, 8134
- State, salary ranges of positions in employment security, etc., 4898, 11194
- teaching faculty in universities and 4-year colleges, spring 1963, survey, 9413
- United States employees, jurisdiction of district court over actions to recover, limitation, increase, amend Tucker act, report, 15077
- see also* Payroll deductions—Wages.
- Salarinae, *see* Entomacrodus.
- Salary Commission, Joint, *see* Joint Salary Commission.
- Salazar, Robert J., French, supplementary exercises for basic course, 14675
- Salem Church Reservoir:
  - Rappahannock River, Va., engineer report—
  - departmental edition, 15227
  - document edition, 15056
- Salem Maritime National Historic Site, general information, 13009
- Saleme, Ernesto, passive geodetic satellite inflation rate study, 8426
- Sales:
  - Agricultural Stabilization and Conservation Service reports, 3848
  - aspects of sales promotion, 7109
  - building U.S. sales in expanding world market (address), 4920
  - capital assets, reported on individual in come tax returns, 2411
  - department store sales—
  - by departments, monthly report, 3572
  - selected areas, monthly report, 3573
  - selected cities and areas—
  - monthly report, 3574
  - weekly percentage changes, 4057
  - export, promotion announcements, 3251
  - international, buyer's or seller's assumption of risk, Bulgarian discussion, 5013
  - large corporations, quarterly report, 3847
  - see also* names of commodities, etc.
- Sales finance companies, *see* Finance companies.
- Sales tax, District of Columbia, exempt House of Representatives majority and minority rooms, printing operations, etc., report, 9087
- Salesmen and salesmanship:
  - outside salesman, definition under fair labor standards act, 1665
  - sell your products with business proposals carried abroad by U.S. trade missions, 6466
- selling in—
  - Canada, 16104
  - Denmark, 233
  - Finland, 10461
  - Greece, 4440
  - India, 4438
  - Sweden, 4445
- selling to military, general information, 2158
- training retail salespeople, bibliography, 5495

Saline County, Ark., water resources, 8181

Saline water, *see* Sea Water—Water.

Saline Water Office:

- appropriations, 1968, hearings, 7734
- press releases, 3759
- programs, briefing session, hearings, 10655
- report, 11216
- Salines, composition of residues on leaves and stems of saltcedar, 6397
- Salinity, ground water of western Pinal County, Ariz., 1131
- Salisbury, Harrison E., trip to North Vietnam, hearing, 6105
- Salish Indians, *see* Flathead Indians.

Saliva:

- parotid fluid—
  - collection by Carlson-Crittenden device, further modification, 10240
  - determination of indiglit biochemical responses utilizing parotid fluid collection technique, 4187
  - flow rate and periodontal status in human, 11965
  - flow rate effect of mental exercise, 11963
  - flow rate effect on calcium and protein levels, 7363
  - flow rate effect on calcium, magnesium, and protein concentrations, 10239
  - hyperhydration and parotid flow in man, 7349
  - measurement of trace levels of deuterium oxide using infrared spectrophotometry, 11964
  - parotid versus extra-parotid flow rate in human, 11961
  - periodontal status, 4178
  - partial transfer of cortisol from bloodstream to parotid fluid, 11962
  - unstimulated, uric acid levels, effect of uricosuric drug administration, 11960
  - uric acid levels, effect of rate of gland function, 11959

Sallas, Gustav A., labor law and practice in Brazil, 11309

Salmon:

- Abernathy diet, test of components, 16636
- caloric and vitamin levels of diets, studies, 8042
- DDT effects on ecology of salmon streams in southeast Alaska, 8040
- fingerlings, effects of age, etc., on characteristics, 8042
- fisheries, agreement with Japan, 15794
- migrating adult salmonids, response to varied orifice conditions, 14066

Salmonella:

- control, sanitation guidelines for processors of poultry and animal byproducts, 11922
- destruction, report of conference, 8
- heat stability of egg white proteins under minimal conditions that kill salmonellae, 11918
- reports, review of salmonellosis in cattle, 9

Salmonidae:

- bacterial kidney disease of salmonid fishes, 4802
- MS-222 use as anesthetic, 8033

Salt:

- minerals yearbook chapter, 6690
- titanium-oxygen alloy and titanium chlorides in molten sodium chloride, reaction rates, 14359
- see also* Brines—Salts.
- Salt Creek area, N. Mex., geology and mineral resources, 17821
- Salt domes, Texas, Louisiana, Mississippi, Alabama, and offshore tidelands, survey, 2541
- Salt Lake City, Utah, area wage survey, metropolitan area, 8312
- Salt River and Valley:
  - basin survey, engineer report—
  - departmental edition, 1028
  - document edition, 526
  - water supply outlook and snow surveys, 4044

- Salt River Pima-Maricopa Reservation, long-term leases, law, 429
- Salt water, *see* Sea water—Water.
- Saltbush, fourwing, percentage of filled seeds, 11128
- Saltcedar, *see* Tamarix.
- Salton Sea, evaporation, techniques used to measure, 9572
- Saltonstall, C. W., jr.:  
research and development of new polymer systems for reverse osmosis membranes, 8213  
study of membranes for desalination by reverse osmosis, 6448
- Saltonstall, Leverett, tributes upon retirement, 2077
- Salts:  
chemistry and technology research, USSR study, 15350  
hydrated multivalent cations, new class of molten mixtures, 9794  
inorganic—  
effect on pyrolysis of wood, alpha-cellulose, and lignin determined by dynamic thermogravimeter, 8103  
technical grade, military standard, 15193-194
- Salutes (military), *see* Military ceremonies, honors, and salutes.
- Salvage:  
fire and water damaged records, SBA, Minneapolis, Minn., 14165  
publications in salvage archeology, 5499  
10081, 15734
- Salzman, Jack A.:  
frequency and viscous damping of liquids during weightlessness, 15571  
liquid-propellant reorientation, 5261
- SAM, *see* School of Aerospace Medicine.
- Sam Houston, Fort, employees, relief, 279
- Samala, Ricardo V., relief, 16198
- Samanski, Rumiko, relief, 13744, 16196, 17508
- Sammel, E. A., water resources of Ipswich River basin, Mass., 6411
- Samoa, *see* American Samoa.
- Samonski, Frank H., jr., technical history of environmental control system for Project Mercury, 18009
- Sample display service, new way to find agents and distributors overseas, 4923, 14207
- Sample surveys, *see* Social surveys.
- Samplers, mechanical, in use at Grand Junction, Colo., design and descriptions, 15963
- Samples:  
aqueous ion exchange determines iodine-131 concentration, 12833  
biological, taken during orbital flight, storage problems, 9820
- Sampling:  
inspection, guide, quality and reliability assurance handbook, 10902  
rates, multiplexing control device for handling wide variations, 12887  
tool to extract cores from baled hay or straw for analysis, 13201  
*see also* Assaying—*also* names of substances or objects sampled.
- Sampling (statistics):  
self study course, 17703-704
- Samuels, Richard D.:  
effects of configuration geometry on supersonic aerodynamic characteristics of simulated launch vehicle, 5239  
static longitudinal aerodynamic characteristics of proposed decelerator test vehicle, 6897  
turbulent boundary layer at Mach 6 with heat transfer at high Reynolds numbers, 8488
- Samuelson, Paul A., review essay of his economic works, 6616
- San Andreas fault, zoogeographic evidence for late Tertiary lateral slip, 17827
- San Antonio, Tex.:  
area wage survey, 16818  
HemleFair, 1968, U.S. participation, amend act—  
law, 399  
report, 621
- San Bernardino, Calif., area wage survey, 5067
- San Carlos Reservation, longer term leases, authorize, reports, 12261
- Sanchez, Pedro A. J., relief, 9238
- Sanchez-Hernandez, Hector J., relief, 9202, 12146, 12214
- Sanchez Jerez, Ernesto, relief, 9243
- Sand:  
budget of littoral sands in vicinity of Point Arguello, Calif., 7924  
coarse, flume experiments on transport, 16695  
embedment, facilitates heat-treatment of metal parts, 6779  
minerals yearbook chapter, 5133  
wave-powered device for moving sand, feasibility study, 13975
- Sand pine, *see* Pine.
- Sanders, Curren J., evaluation of smoke-wire technique for measuring velocities in air, 10293
- Sanderson, H. Reed, publications from San Joaquin Experimental Range, 4824
- Sandhills, *see* Dunes.
- San Diego, Calif.:  
area wage survey, 6610  
Point Loma demonstration plant, conceptual design study of desalination plant-replacement, 15330  
Sunset Cliffs, beach erosion study, engineer report—  
departmental edition, 1029  
document edition, 521
- San Diego County, Calif.:  
Sweetwater River, engineer report—  
departmental edition, 15228  
document edition, 14926
- Sandoval County, N. Mex., effects of land-treatment practices on runoff water supply, 6412
- Sands, A. G.:  
microparticle and fiber reinforcement of epoxy resins, 5352  
microvoids in glass-filament-wound structures, their measurement, minimization, and correlation with interlaminar shear strength, 11677
- Sandstone:  
Clinton hematitic deposits, Butt Mountain area, Va., 12819  
epigenetic uranium deposits in sandstone in United States, geology, 8167  
Mitchell and Berea sands, lower Newport field, Newport Township, Ohio, secondary recovery of oil by waterflooding, 14361  
Venango second sand, Reno pool, Venango Co., Pa., under-ground combustion oil-recovery experiments, 11372  
waterflood performance, theoretical and field, Kane oilfield, Pa., 9769, 12814
- Sandstone Creek, watershed, hydrologic effects of small reservoirs, 2376
- Sandwich construction:  
buckling of sandwich and ring-stiffened 120° conical shells subjected to external pressure, effect of edge constraint, 11417  
deformation of shallow spherical sandwich shells under local loading, 6895  
Forest Products Laboratory, publications, list, 9530  
honeycomb structures, detection of entrapped moisture, 11453  
titanium and nickel-base, edgewise compressive properties at elevated temperatures, 8102

- Sandwich construction—Continued  
*see also* Cylinders—Panels and paneling—  
 Shells (aircraft).
- Sandy Hook to Cape Henry, coast pilot, 4414, 7557
- San Felipe division, *see* Central Valley project.
- Sanford, F. Bruce, commercial fisheries abstracts, 3109
- San Francisco, Calif.:  
 aircraft accident, 17059  
 area wage survey, 9744
- Sanger, Margaret, award in world leadership, accepted by W. Willard Wirtz, Secretary of Labor, on behalf of the President (remarks), 1349
- San Geronimo Wilderness Area, family winter recreational use, hearings, 2050
- Sanguily, Julio, jr., relief, 577
- Sanitation:  
 cheese and cheese products plants, sanitary standards, military standard, 9376  
 effective, smoked-fish plants, 9514, 16619  
 environmental aspects of hospitals supportive departments, 11736  
 equipment, Federal item identification guides for supply cataloging, supplements, 3288  
 FES aid, sanitation series, 14022  
 field sanitation, team training, Medical Service, Army pamphlet, 10264  
 guidelines for processors of poultry and animal byproducts for salmonella control, 11922  
 home laundering, 17317  
 Indian programs, briefing, hearings, 10655  
 milksheds, rating methods, 8639  
 minimum standards for community infant formula services, 15698  
 sanitary significance, fecal coliforms in environment, 6343  
 standards, smoked-fish processing, fish-smoking establishments, recommendations, 11759  
*see also* Food sanitation inspectors.
- San Joaquin Experimental Range, publications, 4824
- San Joaquin Valley:  
 Madera area, data for wells, 12605  
 spinning performances of cottons, comparison with varying fiber properties, 1964-65 season, 15860
- San Jose, Calif., area wage survey, 5063
- San Juan Basin, stratigraphy and regional tectonic implications of Upper Cretaceous and Tertiary rocks, 16693
- San Juan County, Utah, Indians, royalties from certain lands on Navajo Reservation, expenditure to benefit, report, 881
- San Juan Mountains:  
 ash flows and related volcanic rocks associated with Creede caldera, 8166  
 western, Mount Wilson quadrangle, geology, 15304
- San Juan National Historic Site, general information, 15613
- Sanner, William S., preparation characteristics of Pennsylvania anthracite from Bottom Red Ash bed, northern field, 12830
- San Patricio County, Tex., civil rights status of Spanish-speaking Americans, 14848
- San Rafael Wilderness, Los Padres National Forest:  
 designate—  
 hearings, 10854, 15038  
 message from the President, 5995  
 reports, 10734, 14977
- Santa Ana, Calif., area wage survey, 12773
- Santa Ana National Wildlife Refuge, birds, list, 17779
- Santa Ana River and Valley:  
 upper valley, ground water—  
 patterns of subsurface flow, 1118  
 studies proposed, progress report, 1125
- Santa Ana winds, *see* Winds.
- Santa Barbara County, Calif., Santa Ynez River basin, Lompoc subarea, 1957-62 hydrologic inventory, 1117
- Santa Clara County Welfare Department, intake and case recording, fact-finding report, 10973
- Santa Fe County, N. Mex.:  
 land, transfer to AEC—  
 law, 407  
 report, 4503
- Santa Rita Experimental Range, center for research on improvement and management of semidesert rangelands, 2331
- Santa Rita quadrangle, N. Mex., general geology, 14171
- Santa Ynez River and Valley, basin, Lompoc subarea, 1957-62 hydrologic inventory, 1117
- Santiago, Jorge S. Vidal, *see* Vidal Santiago, Jorge S.
- Santillano, Antonio B., relief, 284, 872
- Santor, Gilbert J., Hall coefficient of tantalum carbide as function of carbon content and temperature, 18018
- Santos-Estevez, Mario O., relief, 301, 591, 865
- San Xavier Reservation, long-term leases, law, 429
- Sapstreak, effect of staining caused by sapstreak disease on sugar maple log and lumber values, 2306
- Sapwood, differences between heartwood and sapwood, 2302
- Saraf, Zoltan W., effect of mechanical vibrations on performance of superconducting magnets, 11511
- Saratoga County, N.Y., population, special census, 10375
- Saratoga National Historical Park, general information, 14554
- Sarcoma, *see* Tumors.
- Sardines, larvae, distribution in California Current region off California and Baja, California, 1951-64, summary, 8036
- Sarin:  
 conditional reflex activities of dogs poisoned with sarin and then treated with nemikol-5, Bulgarian study, 6563  
 poisoning of white rats, prophylaxis, Bulgarian study, 6544
- Sarsiella, *see* Crustaceans.
- Satellites:  
 Alouette I, electron densities and scale heights—  
 over American continents, 2617  
 summary graphs, 16930  
 recorded at Hawaii, 6736  
 Ariel I, 1st international satellite, experimental results, 6732  
 artificial earth—  
 navigational use, by Doppler method, USSR study, 11280  
 orbital prediction and differential correction using Vinti's spheroidal theory, 8482  
 systems tests effectiveness in attaining reliable performance, 2697  
 atmosphere investigation, methods, 6911  
 attitude control, semi-active gravity gradient system, evaluation—  
 appendices, 2598  
 technical summary, 2597  
 attitude stability of spinning passive orbiting satellite, 6709  
 communications—  
 act of 1962, report on activities, etc., message from the President, 9066  
 bibliography, 11433  
 FCC rules and regulations, 3277  
 Government use, 1967—  
 bearings, 13707  
 report, 15000  
 use for direct relay of Apollo spacecraft data, feasibility, 15559



Satellites—Continued

communications—continued  
 use for transmission of unidirectional (simplex) programs, USSR study, 15386  
 communications, navigation, geodesy, meteorology, etc., 6735  
 control, command processors, 14479  
 Cosmos satellites in near-earth orbits, USSR study, 5017  
 display system, use of NTDS, 14593  
 domestic satellite policy (remarks), 16564  
 electron densities and scale heights in topside ionosphere, 2617, 6736  
 summary graphs, 16930  
 ESSA spacecraft launching system, 1033  
 ESSA 3, meteorological satellite data, television cloud photography, catalog, 16536  
 Explorer XII, etc., and Ariel I, solar array regulators, 12927  
 Explorer XXIX (Geodetic Explorer), gravity gradient, stabilization system and performance, 17940  
 Ford Foundation proposal for broadcasters non-profit satellite service, hearings, 2111  
 geodetic, passive, ground-based photometric surveillance, 11413  
 geodetic reference system, three dimensional, worldwide concept updated, 6218  
 geodetic satellite observation station, agreement with—  
   Japan, 11867  
   Mexico, 11859  
 Goddard project summary data, 12846  
 gravity-oriented, orbit adjust and station keeping method, mathematical model and study, 2638  
 Japanese geodetic satellite observation station, agreement, 8732  
 Kosmos-122, investigation of cloud cover and out-going radiation, USSR study, 2443  
 low-thrust orbit raising in continuous sunlight while thrusting in plane perpendicular to earth-sun line, 15567  
 Luna-9, lunar panoramas obtained, stratified and multi-faceted forms, USSR study, 1280  
 Luna-10—  
   intensity and spectral composition of lunar gamma radiation, USSR study, 1281  
   investigation of cosmic radiation, USSR study, 1282  
   magnetic field measurements in neighborhood of moon, USSR study, 1285  
   soft corpuscular radiation, USSR study, 1283  
 lunar, indications of lunar intersection of tail of earth's magnetosphere according to charged particle traps, USSR study, 1284  
 lunar ionosphere detection made by 1st lunar artificial satellite, results of experiments, USSR study, 4950  
 manned orbiting laboratory, monitoring crew performance, predicting 4-hour psychomotor performance from half-hour, 17355  
 meteorological, use in cloud research, USSR study, 12744  
 moons of Jupiter, round-trip trajectories to, 18017  
 natural environment in synchronous circular orbit, 15883  
 navigation, future potentials, 11394  
 NRL, satellite position display, simplified prediction equations for, 5349  
 numerical theory, in Brendel's coordinates, 11545  
 observation of distant man-made space objects, USSR study, 16765

Satellites—Continued

orbiting solar observatory, NASA facts, 1437  
 passive communications, orbit position control, handbook, 11398  
 passive geodetic—  
   canister assemblies, 5184  
   inflation rate study, 8426  
 Pegasus—  
   meteoroid satellite project, 1st summary report, 2684  
   thermal design, 1477  
   evaluation, 2687  
 PEM encoding systems, evolution, 5241  
 plastic space erectable prototype, development, 16913  
 position display, computer program (SPAD), 8595  
 power systems configurations for maximum utilization of power, study and analysis, 16918  
 Project EOLE, balloon meteorological research, agreement with France, 2906  
 publications, price list, 5419  
 random-scan display of predicted positions, 9994  
 remote sensing, potential from space platforms, agricultural application, 15843  
 resonant librating orbits, use in satellite geodesy, 14476  
 satellite meteorology, Soviet scientists, papers, 4986  
 scanning small celestial area, minimum energy reaction wheel control, 9899  
 SPAD formatter, buffer interface between satellite prediction computer and display, 8593  
 STARS II, fully automatic data processor, description, etc., 11527  
 synchronous orbits, radiation environment, 8437  
 Syncom engineering report, 11556  
 telemetry data simulation program, generalized, 1508  
 telemetry/telecommand station near Fairbanks, Alaska, agreement with European Space Research Organization, 11836  
 Telstar I, background information, 2615  
 Telstar II, background information, 2615  
 thermal bending plus twist of thin-walled cylinder of open section with application to gravity gradient booms, 15561  
 TIROS—  
   meteorological data, television cloud photography, catalogue, 6227, 13990  
   radiation data, synoptic world weather analysis, 12922  
 TIROS IX, illustrated folder, 9933  
 tracking equipment, USSR description, 9611  
 use for geodesy, USSR study, 1212  
 Vinti's accurate reference satellite orbit with inclusion 3d zonal harmonic, differential corrections, 15564  
 Voyager program, voyage to planets (remarks), 8514  
 weather—  
   data for automatic compilation of cloud maps on Setun' electronic computer, USSR study, 12660  
   upper troposphere motions as revealed by satellite-observed cirrus formations, 9430  
   see also Launching facilities.  
 Sato, Matsue, relief, 580  
 Saturn (planet):  
   use of Jupiter gravity turns for tailoring trajectories to Saturn with consideration of launch opportunities, 2692  
 Saturn (rocket), see Rockets.  
 Saucier, Kenneth L.:  
   design, construction, and postshot evaluation of concrete stem for access hole, 17395

Saucier, Kenneth L.—Continued  
vibrating slope method for measuring concrete workability, 4742

Saudi Arabia:  
aircraft and equipment, transfer, agreement, 2926  
area handbook, Army pamphlet, 5733  
background notes, 15761  
capsule facts for Armed Forces, 11977  
farm products, supply and demand projections to 1975, with implications for U.S. exports, 7886  
mineral industry, minerals yearbook chapter, Kuwait-Saudi Arabia Neutral Zone, 5112  
sedimentary geology, 1124

Sauerkraut, bulk, U.S. standards for grades, 13890

Saugus Iron Works National Historic Site, establish, report, 14955

Sauk Indians, *see* Sac and Fox Indians.

Sault Ste. Marie, Mich., commerce passing through canals, salt water ship movements, statistics, 9423

Sault Ste. Marie, Ontario, commerce passing through canals, salt water ship movements, statistics, 9423

Savannah, Ga., area wage survey, 15439

Savannah (nuclear ship):  
layup, hearings, 12307  
liability during private operation, agreement with—  
China, Republic, 15789  
Greece, 11856  
operation, continue, hearing, 13553  
visit to Hong Kong, agreement, 15795

Savannah River and Valley, geology and ground water for atomic energy plant, 16705

Save them young, New York State's prekindergarten program, 13962

Saveson, Irwin L., deep-tillage investigations on alluvial soil in sugarcane area of Louisiana, 1672

Saville, Thorndike, jr., rock movement in large-scale tests of riprap stability under wave action, 16520

Saving and thrift, size and composition of consumer saving, 6304

Savings accounts, *see* Banks and banking.

Savings and home financing source book, 14023

Savings and loan associations:  
current issues and future opportunities (address), 7961  
financial institutions supervisory act—  
law, 409  
reports, 666, 674, 691  
gifts to minors in D.C., permitting deposits, report, 13639  
holding company act amendments of 1967—  
hearings, 13849, 16316  
report, 13796  
participation loan transactions, insured associations, 3675  
prohibit from participating in gambling activities, hearing, 16397  
savings and home financing, source book, 1966 data, 14023  
savings and mortgage lending activity, selected balance sheet items, FSLIC insured associations, 3365  
South American progress made (address), 7960  
trends, 16574  
*see also* Federal savings and loan associations.

Savings banks, *see* Banks and banking.

Savings bonds:  
bond tips from U.S. savings bond reporter, 3061  
freedom shares (remarks), 8775  
importance in current economic picture (remarks), 18242  
issued and redeemed, 4007

Savings bonds—Continued  
now, build your own retirement program, 5481  
program, Federal employee participation (remarks), 7106  
program inauguration for Federal employees (remarks), 8675  
retirement and savings bonds, issuance—  
law, 504  
law, summary, 4566  
legislative history, 2064  
Senate amendments, summary, 4568  
series A-E, tables of redemption values, 8619, 11708  
series E,—  
department circular, amendments, 5569, 8770  
department circular, supplement, 17266  
general information, price, etc., 11779  
issuing agencies, regulations, 13167  
series H, current income, 8674  
series J and K payment or redemption, department circular, 2947  
series J, tables of redemption values, 5410, 11709  
servicemen-savings bond commemorative postage stamp, 1st day ceremony (address), 1556

Savings notes, issuing agencies, regulations, 13167

Savino, Joseph M., transient solidification of warm liquid flowing over chilled flat plate, 12935

Sawdust, sacking, economic potentials, in western resource conservation and development project areas, 10920

Sawlogs, *see* Logs.

Sawmills:  
coarse feed sawing of red oak, limited study, 11111  
hardwood, chip manufacture, cost analysis, 14139  
knee position recorder for carriage head-blocks, 2297  
operation, Army technical manual, 106

Sawochka, S. G., thermal and hydraulic performance of potassium during condensation inside single tubes, 15506

Saws:  
hole saw drill attachment has zero force reaction, 6767  
radial, how to inspect chart, 9685  
table saw, how to inspect chart, 9687

Sawtimber, *see* Timber.

Sawtooth National Recreation Area, establish, hearing, 16417

Sawyer, D. E., heterodyne operation of avalanche photodiodes, 18023

Sawyer, James W., effects of configuration modifications on aerodynamic characteristics of tension shells, 14475

Sawyer, Richard H., pitch maneuver speed margins for supersonic transport configuration with variable-sweep wing, 17000

Saylor, James H., modification of nearshore currents by coastal structures, 8326

SB series, list, 1933

SBA, *see* Small Business Administration.

Scabies, sheep, eradication, methods, etc., 5666

Scaffolding:  
prefabricated, Federal item identification guides for supply cataloging, supplements, 3288

Scaffolds:  
shipyard maritime safety data, 17888  
how to inspect chart—  
scaffold construction, light duty, 9690  
tubular steel frame scaffold, 9694  
tubular steel tube & clamp scaffolding, 9695

Scale factors for parachute opening, 16984

Scale insects, hemlock pest, *Florinia externa*, description, control, etc., 17796

**Scales (measures):**  
 heights in topside ionosphere, Alouette 1 observations, summary graphs, 2617, 6736, 16930

**Scales (weighing instruments):**  
 weighing and measuring devices, specifications, etc., replacement pages, 6914

**Scallion, William I.**, body motions and angles of attack during Project Fire flight II reentry, 18020

**Scallops**, Cenozoic pectinoids of Alaska, Iceland, and other northern regions, 11180

**Scamp (single-channel monopulse processor)**, see Monopulse radar.

**Scandinavia**, billion dollar U.S. market, 9603

**Scandium isotopes**, Sc 45, differential cross sections for (d,  $\alpha$ ) reaction, 16989

**Scanlon, Thomas M.**, relief, 13569

**Scanners:**  
 electrical continuity scanner facilitates identification of wires for soldering to connectors, 6768

**IR vidicon**, mopitors many test points, 15545

**thermionic**, pinpoints work function of emitter surfaces, 1449

**Scanning:**  
 electron probe microanalysis, 5288  
 means for Cassegrainian antenna, 12900  
 optical systems, information limits, theoretical investigation, 5173  
 photo-scan tube, improved, design concept, 12891  
 satellite scanning small celestial area, minimum energy reaction wheel control, 9899  
 twin helix system produces fast scan in infrared detector, 6800

**Scarabaeids**, see Beetles.

**Scattering:**  
 angular distribution of thick-target bremsstrahlung which includes multiple electron scatterings, 14466  
 determining scattering and absorption coefficients of paper by diffuse illumination, 11114  
 elastic and inelastic, of 42-MeV alpha particles from even tellurium isotopes, 11536  
 electron scattering and bremsstrahlung cross-section measurements, 9811  
 inelastic electron, by nuclei, calculation, 12019  
 inelastic, generalized potentials, 11543  
 light, gas density measurements, 11490  
 light, in highly reflecting pigmented coatings, summary of investigations, 14392  
 monostatic acoustic, from ocean volume, 13034  
 sound in ocean, USSR articles, 9627

**Schafft, Harry A.**, second breakdown in semiconductor devices, bibliography, 18082

**Schaefer, Harry G.**, computer program for finite-difference solutions of shells of revolution under asymmetric loads, 11497

**Schaeffer, R. E.**, gluing ammonium-salt-treated southern pine with resorcinol-resin adhesives, 8063

**Schaffer, E. L.:**  
 charring rate of selected woods, transverse to grain, 11132  
 effect of panel thickness and noncombustible inserts on surface flammability of plywood, 8064  
 review of information related to charring rate of wood, 8059

**Schaffer, Robert**, organic chemistry, air pollution studies, etc., 18081

**Schaele, K. Warner**, study of achievement test used in health examination surveys of persons aged 6-17 years, 13098

**Schallau, Con H.**, analysis of 2 logging road standards for BIM's Tillamook project, 11118

**Scharpf, Robert F.:**  
 biology and pathology of dwarf mistletoe parasitizing true firs in California, 5685  
 spread of dwarf mistletoe into Jeffrey pine plantation, trees infected after 22 years, 16658

**Scheiber, Harry N.**, condition of American federalism, historian's view, 4638

**Scheidegger, A. E.**, probability concepts in geomorphology, 2366

**Scheiman, James**, comparison of flight-measured helicopter rotor-blade chordwise pressure distributions with static 2-dimensional airfoil characteristics, 11502

**Schell Creek range**, Connors Pass quadrangle, geology, 16694

**Schenectady, N.Y.**, area wage survey, 12772

**Schermerhorn, Edward J.**, soil survey of Madison County, Ind., 8700

**Schilling, B. L.**, obtaining surface temperatures of materials in presence of extraneous radiation, 16975

**Schimke, Harry E.**, disposal of logging slash, thinnings, and brush by burying, 4839

**Schindler, A. I.**, residual resistance, ratio of pure iron, 5348

**Schineller, E. Ronald**, development of optical waveguides and components, 15508

**Schistosomiasis**, prevalence in Puerto Rico, skin test survey, 8654

**Schlesinger, Lawrence E.**, tips, guide to placement of NYC enrollees with epilepsy, 2483

**Schloss, Samuel**, nursery-kindergarten enrollment of children under 6, 10937

**Schmid, Hellmut**, concept for up-dated 3-dimensional worldwide geodetic reference system, 6218

**Schmid, P. E.**, feasibility of direct relay of Apollo spacecraft data via communication satellite, 15559

**Schmidt, Harold W.**, handling and use of fluorine and fluorine-oxygen mixtures in rocket systems, 11425

**Schmidt, James E.**, performance of X 258 3d-stage motor on Delta 36 (OT-3), 14460

**Schmidt, Jerome P.**, influence of intermittent 98 percent oxygen and 380 mm. Hg total pressure on susceptibility to tularemia, 5715

**Schmidt, Wyman C.**, growth opportunities for young western larch, 4829

**Schneider, Edward**, county veteran population, 17283

**Schneidman, Edwin S.**, bulleting of suicidology, 14617

**Schnellbacher, E. E.:**  
 addresses—  
 Jan. 24, 1967, 4920  
 Mar. 27, 1967, 8224

**Schnittker, John A.:**  
 addresses, etc.—  
 Sept. 8, 1966, 27  
 Oct. 15, 1966, 1695  
 Nov. 4, 1966, 4141  
 Nov. 29, 1966, 4101  
 Jan. 12, 1967, 4090  
 Feb. 17, 1967, 7269  
 Mar. 14, 1967, 7259  
 June 5, 1967, 13253  
 June 30, 1967, 13244

**Scholars:**  
 presidential, 4717  
 what shapes their talent?, 12468

**Scholarships:**  
 dependents of Army personnel, 17383  
 educational, loans, and financial aids, 1  
 health professions, program, 13082  
 joint commission for review of operation of certain scholarship funds, agreement with Mexico, 7175

**School attendance**, one million dropouts, Sputnik of 1967, 17721

**School books**, see Textbooks.

## School buildings:

- federally affected areas, construction assistance, 1966 annual report, 6175
- one-room schoolhouse and how it grew, 10938
- schoolhouse in the city, 13963
- schoolhouses for big cities, 15217
- School buses, busing kids to suburbs, 10928
- School children, see Children.
- School finance, see Education.
- School libraries, see Libraries.
- School lunches:

- District of Columbia needy children, provide, appropriation, reports, 2087, 16381
- fish & shellfish type A quantity recipes, 15257
- layout, equipment, and work methods for kitchens and serving lines, 4121
- private school lunch management manual, 16442
- statutes, compilation, 7262
- type A—
  - quantity recipes, 46
  - topics, better management, etc., 965

## School of Aerospace Medicine:

- aeromedical reviews, 4174, 7340, 11953, 14769
- technical reports, 65-92, 1730-44, 4175-87, 5706-15, 7341-70, 8868-69, 10231-244, 11954-967, 13269-272, 14770-782, 15894-901, 17346-363

## School Safety Patrol Week, see National School Safety Patrol Week.

- School superintendents, etc.:
  - District of Columbia school officers, etc., increase salaries, law, 514
  - superintendents, large public school systems with enrollments of 10,000 or more, directory, 6197

## Schoolbooks, see Textbooks.

## Schooler, Allan L., relief, 16175

## Schoolhouses, see School buildings.

## Schools:

- built abroad by America pupils, thousand partnerships, 4722
- certificated pilot flight and ground schools, list, 11092
- change and American schools (address), 6177
- demonstration center, physical fitness, project, 18145
- desegregation—
  - guidelines, hearings, 4548
  - nobody wanted school desegregation, 15213
  - plans, revised statement of policies, 2190
  - policies and guidelines—
    - Investigation, hearing, 752
    - select committee to study report referring investigation to Judiciary Committee, 4359
  - progress and problems (address), 4718
  - schools can be desegregated, 14849
  - southern, 1966-67, study, 13436

## District of Columbia—

- amend act to provide for compulsory attendance and taking census, report, 16378
- custodial and engineering staffing, guidelines needed, GAO report, 12387
- employees under fair labor standards act, as amended, 10131
- enrollment—
  - fall, approximately 55 million, Oct. 1966 survey, 5678
  - population characteristics, census, 7483, 16009
  - projections to 1985, United States, 10363
- extended use of school facilities, 16499
- fallout protected, pictorial review, 5917, 16058
- fallout shelters, civil defense program materials, 16052

## Schools—Continued

- federally affected areas, operation assistance 1966 annual report, 6175
- federally impacted areas, improve assistance—
  - hearings, 7742, 9153, 12419, 17664
  - reports, 9118, 10557
- first-rate cities, first-rate schools (address), 12464
- graduate, improvements sought, USSR, 15407
- grants for construction of training facilities, etc., for health professions personnel, law, 463
- how good are our schools? Armed Forces qualification test provides clue, 1005
- independent, need for entangling alliances (address), 6190
- instruction in State and local systems, standard terminology, 10942
- instructional programmer, prediction of success in, 17345
- library resources, textbooks, and instructional materials, acquisition under ESEA, guidelines, 16513
- lunchrooms, work injuries and accident causes, 14282
- mechanic, Federal aviation regulations, 11002
- must take initiative, one million dropouts, Sputnik of 1967, 17721
- nation's schools, report on cooperative research to improve, 16510
- Negro enrollment in Southern and border States, 4711
- nonprofit private elementary and secondary, loans for equipment and materials, national defense education act, 1007
- NTC, specially trained teachers for education of poor, 6188
- our short-changed city schools (address), 16505
- pilot, Federal aviation regulations, 6241, 11000
- preventive dentistry program, feasibility study of use of stannous fluoride mouthwash, 17352
- private, lunch management manual, 16442
- public—
  - accounting principles, 16509
  - bond sales, 6176
  - districts, 17 southern and border States, equal educational opportunities programs, status of compliance, 10943, 17725
  - finance programs, 1966-67, State compilations, 17724
  - instruction in science, etc., Federal financial assistance, guidelines, 13956
  - land exchanges with Forest Service, facilitate—
    - hearings, 16303
    - report, 16275
  - racial isolation, Civil Rights Commission report, 5918
  - summary, 8982
  - urban teachers' compensation, long-term trends, 5080
- public systems, education directory, 10930
- public training schools serving delinquent children, directory, 4364
- pupil personnel workers, certification requirements, 9396
- racial injustice, heat in our kitchens (address), 1004
- Russian, 10-year program, final examinations, 1002
- school certification of full-time attendance for social security purposes, 15743
- school plant management series, 16499
- staffing for better schools, 16511
- State systems, statistics, 7914
- summer projects of Education Office, 9410
- tax funds in cities and suburban areas, comparison (address), 16512

Schools—Continued

- Washington State, etc., income from public lands, use for construction of facilities, etc.—  
hearing, 9323  
law, 12177  
reports, 10733, 12262
- what OE's decentralization means, decisions from the field, 16497
- youth physical fitness program, suggestions, 8617  
*see also* Education parks—Elementary education—Faculty (schools)—High schools.
- Schools of forestry, *see* Forests and forestry.
- Schoppert, David W., remarks, Dec. 19, 1966, 4453
- Schrantz, Paul R., temperature control of orbital otolith experiment, 12868
- Schreinemakers, F.A.H., method for construction of pressure-temperature diagrams for multicomponent systems, geometric approach, 2359
- Schridder, Leo A., waterflood performance, Kane sand, Kane oilfield, Elk County, Pa., 9769
- Schrock, Joann L., minority groups in Vietnam, 5735
- Schrödinger's equation, *see* Equations.
- Schroeder, Harold J., zinc, 2592
- Schroeter, Richard B., U.S. imports of horticultural products, 16641
- Schuerch, H., manned extravehicular activities in assembly and operation of large space structures, 16901
- Schuffe, J. A., behavior of water in various states, 15333
- Schuldiner, S., potentiostatic current-potential measurements on platinum electrode in high-purity closed system, 10011
- Schuller, Frederick T., operation of hydrodynamic journal bearings in sodium etc., 9901
- Schultz, J.:  
brackish well water reverse osmosis tests at Midland, Fort Stockton, and Kermit, Tex., 11217  
Potomac River reverse osmosis test, 6441
- Schultz, Leonard P.:  
new genus and new species of zoarcid fish from north Pacific Ocean, 11606  
South American freshwater angelfishes, 8539
- Schultz, Robert P., operational summer planting of slash pine, 15285
- Schultz, Theodore W., investment in poor people, 5044
- Schultze, Charles L., testimony, hearings, 15158
- Schurz, Carl, papers in Library of Congress, register, 8330
- Schuster, Ruble C., UNESCO special fund projects, 14690
- Schutzmann, R. L., cleanup and confirmation of pesticide residues, etc., 13200
- Schwartz, Ralph L., soil survey of Fisher County, Tex., 2877
- Schweltzer, Dennis L., computer program for evaluating long-term forestry investments, 14131
- Schwirlan, Richard E., single-phase induction electromagnetic pump, 9909
- Scibbe, Herbert W., rolling-element fatigue life of SAE 52100 steel hollow balls, 6879
- Science:  
academic, Federal support in universities and colleges, 13011, 17057  
academic science, degree profile and Federal contributions to universities, etc., 14560  
Academy of Medical Sciences, USSR, nominations, 5022  
Academy of Sciences, Armenian SSR, annual meeting evaluates recent work, 9636

Science—Continued

- Academy of Sciences, Azerbaydzhan, annual meeting, 1966 activities discussed, 9668
- Academy of Sciences, Bulgaria—  
history and achievements, 6557  
interview with Deputy Chairman, 6480  
Vice President Vladimir Georgiyev interview, 4991, 6480
- Academy of Sciences, Kazakh SSR—  
activities, 12677  
dissertations defended by scientific co-workers, list, 11246  
projects planned, 12753  
scientific research, resolution, 4965
- Academy of Sciences, Latvia, biographies of members, 1163
- Academy of Sciences, Moldavian SSR, work reviewed, 8272
- Academy of Sciences, Rumania, astronomical observatory, activities, 1290
- Academy of Sciences, Tadzhik SSR—  
Department of Biological Sciences, newly elected members, 16785  
young scientists conference, 14254
- Academy of Sciences, Ukrainian SSR, organization of comprehensive research, 5399
- Academy of Sciences, USSR—  
All Union Entomological Society, activities, report, 2471  
Departments of Biochemistry, Biophysics, and Chemistry of Physiologically Active Compounds, annual convention, 12745  
elections of biomedical scientists, 1331  
new members, 2440  
reports, 6579  
seminars discuss latest concepts in philosophy and science, 1291  
vestnik (periodical), 4037
- Academy of Sciences, Uzbek SSR, work reviewed, 8272
- agricultural science in science community (address), 10160
- agricultural science review, 3001
- American manpower, 1964, report of National Register of Scientific and Technical Personnel, 5323
- analysis of scientific thought, USSR study, 1298
- applied, and technological progress, panel report—  
committee print, 16342  
hearing, 15049  
print additional copies, report, 16263
- aquatic, graduate educational grants, 1967-68 academic year, 1077
- aquatic sciences in Great Lakes area, 2241
- assistant, examination announcement, 7545
- astronautics and aeronautics, 1965 chronology, 1441
- Bulgaria—  
new pay scales for scientific workers, 1303  
progress, 1967 program, 6494  
scientific organizations operating under their own accounting systems, 6586
- classification, Library of Congress, 9749
- cold regions science and engineering, environment, 1756, 14793-794
- colleges and universities, resources, 1964, expenditures and Jan. 1965 employment, preliminary report of survey, 2762
- Communist China translations, 3952
- Communist Chinese abstracts, 3114-23
- contemporary philosophical and applied problems, USSR studies, 2445
- contributions to Federal crime insurance, 16437
- control sciences—  
cybernetics in system, USSR study, 9660

# INDEX 1967

## Science—Continued

control sciences—continued  
 principles applied to biology and medicine, USSR studies, 1322  
 coordination for needed production, USSR study, 1262  
 course and curriculum improvement projects, 5324  
 creative quest, USSR editorial, 16763  
 development, integrated study, USSR, 9674  
 development, Soviet-Polish symposium, 15411  
 earth sciences—  
 Communist Chinese abstracts, 3118  
 East European abstracts, 3220  
 East European abstracts, 3217-24  
 education and government surplus material, 14186  
 education, and junior college, report, 16343  
 education program, Naval Research Laboratory, 17097  
 environmental sciences, program decisions (address), 7937  
 exchanges, agreement with Union of Soviet Socialist Republics, 7182  
 facilities, planning, design, and construction, literature, list, 14561  
 Federal careers, examination announcement, discontinuance notice, 17459  
 Federal careers in physical sciences, examination announcement, 1924  
 supplement, 5933  
 future international meetings, world list, 4073  
 Government scientific reports, standard for descriptive cataloging, 6245  
 information systems, nonconventional, in current use, descriptions, 11623  
 instruction, financial assistance guidelines under NDEA, 13956  
 international notes (periodical), 3439  
 international scientific programs, participation of Federal agencies, report, 6044  
 introductory, USAFI exercise book, 7845  
 Latvia, State prize candidates in science—USSR announcement, 12683  
 materials, importation agreement—  
 implement—  
 hearing, 951  
 law, 371  
 reports, 653, 655, 903  
 text, 5549  
 NASA, scientific reports for 1966, selected listing, 12884  
 national defense education act, loans to private nonprofit elementary and secondary schools for equipment and materials, 1007  
 natural, development in Bulgaria, role of Communist Party, 9th congress, 2465  
 natural science, philosophical problems, subjects for research, USSR list, 16779  
 new Hungarian candidates appointed, 9632  
 Panel on Science and Technology, 8th meeting—  
 papers, 12315  
 proceedings, 9170  
 papers, contributions from History and Technology Museum, title page, contents, and index, 14529  
 partnership between Federal Government and American universities in financing scientific enquiry (remarks), 7211  
 philosophical development of theories, USSR study, 5024  
 physical sciences—  
 national standard reference data system, extend service—  
 hearing, 12405  
 reports, 10601, 14956  
 research objectives, 1967, OAR, 7336  
 technician, examination announcement, 1910

## Science—Continued

physical sciences—continued  
 trainees for vacation work-study programs, examination announcement, 17460  
 policy studies, review and forecast, 2059  
 radio science (periodical), 3803  
 radio science, journal of research, National Bureau of Standards, 2736  
 reviews of data on resources, 2762, 5325-26  
 role, increasing in our era, USSR study, 15419  
 science and Air Force, history of AFOSR, 7335  
 science and America's beauty, 15841  
 science, and city, 6432  
 science and consumers, 15840  
 science and criminal justice—  
 symposium, 11699  
 task force report, 11704  
 science and engineering, fact and fiction (address), 243  
 science and engineering staff in universities and colleges, 1965-75, prospective manpower situation, 14563  
 science and food for freedom, 13217  
 science and improving our environment, 14738  
 science and saving water and soil, 15842  
 science and sea, 11649  
 science and technology for mankind's progress, 13454  
 science, foreign affairs, and State Department (address), 14671  
 science, government, and public policy, Government-science relationships during 89th Congress, 13716  
 scientific age, education and change (remarks), 17401  
 scientific and technical information (USSR periodical), 1324, 3852  
 scientific application of cybernetics in military science, USSR study, 1197  
 scientific cooperation with Italy, agreement, 17231  
 scientific information and documentation, dissemination in Rumania described, 14222  
 scientific information need in medicine, USSR study, 15413  
 scientific information notes, national and international developments, 3853  
 scientific labor organization proves effective at Siberian mining institute, 14263  
 scientific organization of work and training of industrial workers, USSR studies, 16752  
 scientific organizations operating under their own accounting systems, Bulgarian decree, 5030  
 scientific tests, publications, price list, 2804  
 sociological problems of development, USSR review of new literature, 16787  
 Soviet-Polish joint meeting, USSR study, 9658  
 special foreign currency information program, 1967 list of translations in process, 7551, 17464  
 student or classroom science project series, 4135-37  
 surveys of science resources series, 2761, 9966  
 teachers in Peace Corps, 5380  
 teaching aid, portfolio of photographs, 17158  
 teaching in public junior high school, 7909  
 theoretical papers in hydrologic and geomorphic sciences (series), 2366  
 today's science, tomorrow? (remarks), 135  
 transnational business of science and technology (remarks), 9025  
 underwater ships of science, USSR study, 8267



Science—Continued

USSR—

- abstracts, 4025-31
- achievements, 14248
- activities of academies reviewed, 8250
- basic contemporary trends discussed by Academician Ya. V. Poyve, 8252
- expansion in Soviet Republics, 12751
- Lenin prizes, recipients, 9657
- promoting development, 15374
- recent progress, 1267
- scientific and technical information service, organization, 2430
- scientific education, measures outlined for improving, 14245
- scientific establishments, activities, 2479
- scientific information, development, 9613
- scientific organizations—
  - activities, 15379
  - development, 1227
  - news, 1226, 6519, 9638
- space program, 1962-65, goals and purposes, achievements, plans, and international implications, 4628
- technical cybernetics, problems of control and information problems, 2427
- visual and auditory materials of scientific character, circulation, agreement and protocol, 5546
- Yugoslavia, economic reform, 6515
- see also* names of sciences—*also* headings beginning Scientific.
- Science Advisory Committee, President's, *see* President's Science Advisory Committee.
- Science and Astronautics Committee, House :
  - activities, 89th Congress, 4560
  - calendar, 3484
  - committee prints, 2057-59, 4560, 6043-44, 7755-56, 9169, 9171, 10676, 12315, 13716-717, 16342-343
  - hearings, 753-754, 10677, 12316, 13714-715, 15049, 17612
  - investigations and studies, aeronautics, outer space, other scientific research—
    - authorization, report, 7671
    - expenses, report, 10554
  - Panel on Science and Technology, 8th meeting—
    - papers, 12315
    - proceedings, 9170
  - reports, 7668-69, 10601, 10622, 14934
- Science and Technology, Federal Council for, *see* Federal Council for Science and Technology.
- Science and Technology Office :
  - appropriations, 1968—
    - hearings, 9145, 15147
  - reports, 10600, 15131
- Science Research and Development Subcommittee, report, 2059
- Scientific Advisory Board, USAF, first 20 years, 11969
- Scientific and technical aerospace reports, 3850
- Government-wide index, 3381
- indexes, 3851
- Scientific and Technical Information Committee, standard for descriptive cataloging of Government reports, 6245
- Scientific and Technical Personnel, National Register, *see* National Register of Scientific and Technical Personnel.
- Scientific apparatus and instruments, exports, 1958-66, analysis, 15983
- Scientific photography, *see* Photography.
- Scientific research :
  - Academy of Sciences, Kazakh SSR, resolution, 4965
  - Air Force research—
    - articles, 15878
    - bibliography, 7304
  - and development base in Slovakia, 17876
  - animals in atomic research, uses, etc., 15977

Scientific research—Continued

- armed services support, investigation—
  - authorization, report, 6009
  - expenses, reports, 7677, 14979
- basic research, applied research and development in industry—
  - preliminary report, 5325
  - survey, final report, 2761
- Belorussian Scientific Research Institute of Animal Husbandry, achievements in 50 years of Soviet power, 15421
- careers, Agricultural Research Service, 17323
- coordinating problems, Bulgaria, 2435
- cost accounting in—
  - organizations, USSR study, 1343
- scientific research institute, USSR, 16786
- economic and social effectiveness, factors contributing to increase, USSR study, 1206
- economic efficiency of, Rumania, 15381
- economics, discussion, USSR, 11274
- effectiveness and financing, USSR study, 1237
- Federal funds for research and development, geographic distribution, 13012
- federally generated technology, transfer, policy planning report, 10693
- funds for research and development, equitable distribution among States by Government agencies, hearings, 10839
- information retrieval system for research grants, Radiological Health Division, 7064
- information, single and united system construction, USSR study, 9646, 9675
- Interior Department programs, hearing, 17657
- manpower, impact of Federal policies, report and recommendations, 4650
- manpower, mobilization and utilization, hearings, 4652, 10869
- medical benefits from space research, 17948
- OAR index of research results, 17342
- packaged Government research and development information for industry, list, 10438
- Polar Scientific Research Institute of Sea Fisheries and Oceanography, USSR, activities, 6551
- research grant programs in NIH, administration, report, 17575
- research grants of PHS, 1966, index, 8647
- Rumania, role of higher education, 14223
- scientific documentation sponsored by NSF, price list, 6916
- space research and development, by-products (address), 5280
- Ukrainian scientific laboratories, institutes, and botanical garden, gains noted, 14235
- United States-Japan Committee on Scientific Cooperation, 1st 5 years, 1961-66, major activities, etc., 13138
- use of computers in scientific experiments, USSR study, 11245
- use of isotopes and ionized radiation, 4940
- USSR—
  - industry and education cooperate, 8251
  - problems in financing, 16745
  - Soviet engineers reply to questions on role of their specialties, 6561
  - VUZ students urged to use economic approach, 16746
  - Yugoslavia, economic reform, 6515
- see also* subjects.
- Scientific Research Institute of Epidemiology and Microbiology, Moscow, *see* Moscow Scientific Research Institute of Epidemiology and Microbiology.
- Scientific societies :
  - cadres, selection, distribution and structure outlined, USSR book excerpts, 15393

Scientific societies—Continued

Hungarian organizations, news, 2455  
Moscow Naturalist Society, Biophysics  
Section, activity, 4971  
Soviet organizations, news, 2436

Scientists:

Belorussian, more needed to train specialists in microelectronics and bionics, 1271

biomedical, elections to Academy of Sciences, USSR, 1331

brain drain into United States, staff study, 15029

Bulgarian, role in radiation biochemistry, crystal chemistry and cybernetics, 1159  
contributions in hygiene, physiology, and scientific organization of labor, USSR study, 16767

current employment market, 4727

employment in industrial research, etc., 1965, preliminary report, 5325

employment in State governments, 15450

evaluation criteria, quality and quantity of publications, 1709

how to become scientist (remarks), 10307

Hungarian, news, 2455

impact of Federal research and development policies upon scientific and technical manpower, report and recommendations, 4650

Public Health Service, career opportunities, 8652

Pugwash conference, 16th report, 1234

recruitment of potential scientists, USSR study, 16764

salaries and selected characteristics, 5326

scientific manpower utilization, hearings, 4652, 10869

scientific-pedagogical personnel, increasing reserves, USSR study, 11276

scientists from abroad, 1962-64, as immigrants, educational exchange students, etc., 9966

Tadzhik SSR Academy of Sciences, conference, 14254

USSR—

benefits and improvements, 4982

biographic sketches, 1330

brain composition and function studied by Soviet scientists, 8271, 9610

news, 9638

obituaries of 8 Soviet scientists, 1204

outstanding scientists honored, 1190

research and activities reviewed, 14264

satellite meteorology papers, 4986

Uzbek, contributions to Republic's development outlined, 12671

young scientists look at food, nutrients, etc., 12561

see also Agricultural research scientists.

Scintillation survey meters, see Radiation detection instruments.

Scipio, L. Albert, structural design concepts, some NASA contributions, 16932

Sclerometers, pendulum sclerometer for surface hardness studies, 11381

Sclerosis, see Multiple sclerosis.

Scoggins, James R., sphere behavior and measurement of wind profiles, 11537

Scota, Francis P., clinical evaluation of stannous fluoride, etc., 14319

SCORE, see Service Corps of Retired Executives.

Scotland, infant and perinatal mortality, 5466

Scott, Charles E., jr. industry wage survey, fertilizer manufacturing, 12774

Scott, David W., art of Stanton Macdonald-Wright, introduction, 11595

Scott, Herbert E., M-1 engine subscale injector tests, 12959

Scott, W. Wayne, angular distribution of thick-target bremsstrahlung which includes multiple electron scatterings, 14466

Scott, Walter N., toxicity of monomethylhydrazine on frog cornea, 10242

Scott, Winston W., jr.:

design and operation of high voltage calibration facility, 5292

standard for accurate phase-angle measurements at audio frequencies, 6924

Scotton, Donald W., operating costs and ratios, retail, 5493

Scouring and combing plants, see Wool.

Scrap:

automobile disposal, national problem, case studies, 8336

consumption and stocks at brass and wire mills, mineral industry survey, monthly, 3962

iron and steel, Southeast, sources, consumption, etc., 12797

metals, temporary suspension of duties, continue—

law, 12180

reports, 7730-13801

vanadium, molten-salt electrorefining, 17916

Screens (projection):

physical and optical properties, 7024

raster screens, optical instruments, USSR, 6505

Screw-seal performance in vacuum environment, 6885

Screw threads, holding fixture facilitates pipe thread gage measurements, 8474

Screwworms:

barrier program, facts, 15827

keeping screwworms out of United States, questions and answers, 10156

Scribing low force, film coating permits, 6772

Scrub oak, see Oak.

SCS, see Soil Conservation Service.

Scuba, see Aqualung.

Scull, J. R., spacecraft guidance and control, 6730

Sculpture and statuary, statute of Dennis Chavez, acceptance, proceedings, 4570

Scyllac, Ad Hoc Panel on, see Ad Hoc Panel on Scyllac.

SD series, 16474

Se habla espanol, help for Spanish-speaking youngsters, 13964

Sea, see Ocean—Water pollution.

Sea anemones, burrowing acontiate anemone, new California species, 6952

Sea cucumbers, psolid holothurian genus *Lisothuria*, 8550

Sea food:

irradiation pasteurization, effect on microbial flora surviving, 1800

radiopasteurization, shipboard irradiator studies, annual report, 5791

recipes, low-calorie, seafood slimmers, 8026

Sea, Freedom of the, see Freedom of the seas.

Sea grant colleges, see Colleges and universities.

Sea ice, physical properties, understanding variations, 15931

Sea level, elimination of rocket engine asymmetric loads during tests, 6831

Sea mink, see Minks.

Sea nettles, see Jellyfish.

Sea otters, protect, law, 416

Sea urchins:

echinoids of Dominica, 5316

new echinoid from Cretaceous Pierre shale of eastern Wyoming, 2363

Sea water:

air bubble properties at air/sea interface, influence of surface-active material, 17088

contamination of Navy fuel oils, microwave monitoring, 15637

deposition of barium sulfate from sea water in oil-well rotary pumps, 11386

desalination—

A-B-seas of desalting, 4912

agreement with Union of Soviet Socialist Republics, 11841

and energy development, etc., policy considerations, 15969

Sea water—Continued  
 desalination—continued  
 appropriations, expand program, etc.,—  
 hearing, 9322  
 law, 12172  
 reports, 10361, 10753  
 by electrosorption and desorption, 6445  
 conceptual design of desalination  
 plant—  
 and test module, 8216  
 replacement for demonstration plant  
 at Point Loma, San Diego, Calif.,  
 15330  
 250 MGD plant, 2396  
 demonstration plants corrosion test  
 program, 9594  
 desalting for Athens, Greece, prelimi-  
 nary study, 10314  
 desalting versus conventional water sys-  
 tems in Texas, cost calculating proce-  
 dures and methods, 12645  
 direct freeze separation using refriger-  
 ant R-C318, 12644  
 distillation equipment, USSR diagram,  
 etc., 11270  
 foam fractionation, 12642  
 international symposium, proceedings,  
 9857, 11214-215  
 liquid-liquid heat transfer, 14200  
 nuclear energy for water desalting, bib-  
 liography, 12014  
 policy considerations (remarks), 10313  
 report, 11216  
 Texas, potential contribution to future  
 water supply, 15328  
 thermophysical properties of saline  
 water systems, 12643  
 USSR technical publications, transla-  
 tions, 13313  
 desulfation processing, preliminary studies,  
 6688  
 horizontal spray film evaporator, heat  
 transfer coefficient and evaporating seal-  
 ing tendencies, 6440  
 hot, corrosion in, in experimental loop  
 apparatus, investigation, 15326  
 mass transfer properties, 2393  
 nuclear power-desalting combination proj-  
 ect—  
 hearings, 7749, 7813  
 laws, 375, 10487  
 reports, 675, 6078, 7731, 9125  
 nucleation and growth of ice crystals, 6442  
 salt water distillation facilities, federally  
 owned, sale to government of Virgin  
 Islands, Virgin Islands Corporation, In-  
 terior Dept., General Services Adminis-  
 tration, GAO review, 8146  
 temperature and density, Pacific Coast,  
 17466  
 temperature, frequency spectrum of short-  
 period fluctuations, USSR study, 1180  
 thermal distillation, fundamentals of  
 theory of marine evaporators, 17390  
 Seabees, naval construction battalions, 25th  
 anniversary, commemorative medal, law,  
 487  
 Seabirds, see Water birds.  
 Seaborg, Glenn T.:  
 addresses, etc.—  
 Oct. 23, 1966, 134  
 Oct. 24, 1966, 133  
 Nov. 2, 1966, 132  
 Nov. 3, 1966, 135  
 Nov. 8, 1966, 1815  
 Nov. 17, 1966, 130  
 Dec. 13, 1966, 1818  
 Jan. 10, 1967, 4243  
 Jan. 13, 1967, 4244  
 Jan. 19, 1967, 4240  
 Jan. 27, 1967, 4247  
 Feb. 6, 1967, 4246  
 Mar. 1, 1967, 5799  
 Mar. 3, 1967, 7439  
 Mar. 29, 1967, 7438  
 Apr. 25, 1967, 8915, 8918

Seaborg, Glenn T.—Continued  
 addresses, etc.—continued  
 May 9, 1967, 10307  
 May 11, 1967, 10315  
 May 12, 1967, 10310  
 May 26, 1967, 10306  
 May 31, 1967, 10305  
 June 5, 1967, 10318  
 June 9, 1967, 10319  
 June 26, 1967, 12021  
 July 3, 1967, 12022  
 July 5, 1967, 12023  
 Aug. 31, 1967, 15972  
 Sept. 9, 1967, 15970, 15975  
 Sept. 19, 1967, 15976  
 Sept. 27, 1967, 15974  
 Oct. 19, 1967, 17404  
 Oct. 22, 1967, 17401  
 Oct. 23, 1967, 17402  
 Seafaring wage rates, Atlantic, Gulf and  
 Pacific districts, 14313  
 Seafood, see Sea food.  
 Seal of United States, see Seals (numis-  
 matics).  
 Seal-off assembly permits rapid evacuation of  
 air from containers, 1450  
 Sealab Project, see Project Sealab (man-in-  
 the-sea, program).  
 Sealants, see Sealing compounds.  
 Sealers, Federal item identification guides for  
 supply cataloging, supplements, 3290  
 Sealift, see Transportation.  
 Sealift magazine, 3854  
 Sealing:  
 chemical sealing of soils, feasibility study,  
 17849  
 refractory metals by vapor deposition,  
 14432  
 self-sealing closure enables access, 14417  
 silver plating technique seals leaks in thin  
 wall tubing joints, 6699  
 Sealing compounds:  
 depth control of potting compound for  
 honeycomb sandwich fasteners, study,  
 6834  
 sealants, survey, 5195  
 Seals (animals):  
 fur seals, Pribilof Islands, protect and con-  
 serve, law, 416  
 Northwest Atlantic Fisheries Convention,  
 multilateral understanding, protocol,  
 2896  
 pelagic fur seal investigations, 14062  
 Seals (numismatics):  
 Federal Aviation Agency, FAA regulations,  
 11003-4  
 great seal of United States, control—  
 law, 511  
 report, 4583  
 seal of President of United States, control,  
 report, 4583  
 Senate, history, 2080  
 Seals and glands:  
 cryogenic seal remains leaktight during  
 thermal displacement, 12837  
 face contact seal in liquid sodium perform-  
 ance improved by incorporation of spiral-  
 groove geometry, 11505  
 impregnated mechanical carbons, wear and  
 friction at temperatures to 1400° F in  
 air or nitrogen, 9915  
 large seals fabricated from small segments  
 reduce procurement lead time, 1461  
 screw-seal performance in vacuum envi-  
 ronment, 6885  
 segmented, arch-bound carbon seal is pres-  
 sure loaded, 16959  
 static seal concept to accommodate seat  
 tolerances, 15549  
 static seal provided by combination spacer  
 and gasket, 2630  
 vacuum chamber remotely sealed by eutec-  
 tic metal, 11390  
 visco seal design offers zero-leakage, etc.,  
 8470

# INDEX 1967

- Seamans, Robert C., jr., address, July 14, 1966, 2733
- Seamen, *see* Sailors.
- Seamless tube production, USSR, 2467
- Seamounts, internal magnetization and its computer calculation, 12612
- SEARCH, administrative research bulletin, 11890
- Search and rescue operations for U.S. private pilots missing in foreign areas, hearing, 16329
- Search radar, *see* Radar.
- Searches and seizures, law of search and seizure, handbook, 12763
- Searcy, James K., use of riprap for bank protection, 14640
- Seas, *see* Inland seas—Ocean.
- Seas, Freedom of the, *see* Freedom of the seas.
- Seasonal changes among endocrine-metabolic indices of men residing in subtropical climate, 7358
- Seasonal variations (economics) :  
X-11 variant of census method II seasonal adjustment program, 5902
- Seat belts, *see* Automobile seat belts.
- Seaton, Stuart L., gas density measurements using light scattering, 11490
- Seats :  
aircraft ejection-seat system, foreign produced, procurement by Defense Department, GAO review, 4881  
aircraft passenger seat cushions, flotation characteristics, 137  
aircraft passenger-seat-system response to impulsive loads, 17388  
automotive seat backs, padding, Federal standard, 6329  
automotive vehicles, anchorage, Federal standard, 6320  
stadium seating, market analysis, 14132
- Seattle, Wash., area wage survey, 6009
- Seaweeds, control, law, 434
- SEC, *see* Securities and Exchange Commission.
- Seechi, AIC 61C, lunar chart, 7325
- Seckler-Hudson, Catheryn, Federal textbook on citizenship, our Constitution and Government, 12631
- Secobarbital, hangover effect on simulated pilotage performance, 7364
- Second breakdown in semiconductor devices, bibliography, 18082
- Second look, progress report on Federal employment of mentally retarded, 16083
- Secondary education :  
elementary and secondary education act—amendments of 1966—  
administration of programs, notes and working papers, 10865-867  
law, 462  
amendments of 1967—  
hearings, 7742, 9153, 12419, 17664  
reports, 9118, 10557  
annual report under title 1, 7890  
ESEA amendments, what's new, 6198  
grants, application forms, instructions under title 1, 16503  
grants, guidelines under title 2, 16513  
handicapped children, State plan programs guidelines, 10933  
PACE, projects to advance creativity in education, supplementary services and centers, 2189, 7915, 10940-941, 17723  
profile, 9406  
staffing for better schools under title 1, 16511  
title 1, school year 1965-66, highlights, 15218
- Israel, modern system, national development, 6187
- offerings for academically and culturally deprived pupils (address), 7903
- space oriented geometry, supplement, 8513
- Secondary schools, *see* High schools—Secondary education.
- Secretaries :  
opportunities in State Department, 11831  
opportunities in Washington, D.C., Internal Revenue Service, 11223  
overseas opportunities, State Department, 8722  
so you want to be a secretary, 15207
- Secretary of Senate, *see* Senate.
- Securities :  
act of 1933—  
amended, 11784  
general rules and regulations, 5484  
releases, SEC, 3856  
corporate equity ownership and in corporate takeover bids, full disclosure—  
hearings, 13846  
report, 15133  
foreign government obligations, purchase by Federal reserve, authorize—  
hearing, 7800  
report, 9281  
foreign, interest equalization tax act, extend—  
digest of testimony and statements, 9176  
hearings, 6047, 13859  
law, 13539  
legislative history, 15052  
reports, 7670, 7708, 13689, 13823  
income tax treatment of certain straddle transactions, report, 2024  
issued by State and local governments, authority of national banks to underwrite, hearings, 16396  
member State banks, Federal reserve regulation, 11057  
redeemable, list, 11051  
traded on exchanges, annual listing, 11785  
quarterly supplement, 3858  
transactions and holdings, 3653  
*see also* Government securities.
- Securities and Exchange Commission :  
appropriations, 1968—  
hearings, 9145, 15147  
reports, 10600, 15131  
companies filing annual reports directory, 13112  
decisions and reports, bound volume, 8676  
general rules and regulations under securities act of 1933, 5484  
general rules and regulations under securities exchange act of 1934, 11782  
investment advisers act releases, 3444  
investment company act releases, 3445  
member, nomination of Richard B. Smith, hearing, 9307  
news digest, 3630  
releases, 2983, 3153, 3390, 3516, 3856-57, 3901, 3979  
report, 1966—  
departmental edition, 5483  
document edition, 4484  
report on public policy implications of investment company growth, report, 2035  
rules of practice, rules relating to investigations and core of behaviour governing ex parte communications, 11783  
statistical bulletin, 3899  
work, 5485, 15727
- Securities exchanges :  
act of 1934—  
amend—  
hearings, 13846  
report, 15133  
companies filing annual reports, directory, 13112  
general rules and regulations, 11782  
releases, SEC, 3857  
code of Federal regulations, 12524
- Securities investigators, examination announcement, discontinuance notice, 7543
- Security, *see* Military security—National defense—National security.

Security of vessels and waterfront facilities, 10448  
 Security warning system monitors up to 15 remote areas simultaneously, 2665  
 Sedan project 62.80c aeroradioactivity survey, 12002  
 Sedatives, *see* Hypnotics and sedatives.  
 Sedgewick, C. H. Wallace:  
     crude petroleum and natural gas, 5847  
     oil and gas extraction, 7465  
     oil and gas field services, 1854  
 Sediment porosity meter, feasibility study, 10303  
 Sedimentary rocks:  
     Colorado, Kansas, Montana, etc., chemical composition, 14172  
     gold-bearing, in northwest Wyoming, preliminary report, 9569  
     mass properties, and gravimetric effects of petroleum and natural gas reservoirs, 12608  
     mass properties as related to petroleum exploration (series), 12608  
 Sedimentation and deposition:  
     Cache Creek drainage basin in coast ranges west of Sacramento, Calif., sediment transport, 11181  
     deposition of barium sulfate from sea water in oil-well rotary pumps, 11386  
     flood of Dec. 1964 on Coffee Creek, erosion and deposition, 17823  
     Mississippi River Delta, monitoring agricultural pesticide residues, preliminary report of studies, 4086  
     petrology of sediments underlying areas of land subsidence in central California, 12607  
     radioisotope gauge for monitoring suspended sediment concentration in rivers and streams, 1794  
     sediment nearshore environment, instrumentation, by multipurpose data acquisition system, 16522  
     sediment porosity meter, feasibility study, 10303  
     sediment transport in alluvial channels (series), 11181, 16695  
     sediment yields from high mountain watersheds, central Colorado, 2332  
 See Hom Sheek, *see* Hom Sheek See, and wife.  
 See the United States, program, extend through 1967, report, 9292  
 Seed crops, *see* Crops.  
 Seedbeds:  
     density affects size of 3-0 green ash nursery stock, 14095  
     prescribed burning improves Piedmont loblolly pine, 12582  
     shortleaf pine seedling inventory methods on broadcast-seeded areas, 8072  
 Seedling, *see* Forest planting.  
 Seedlings, coniferous, snow damage, 1091  
     *see also* names of plants or trees.  
 Seeds:  
     bitterbrush, measuring production on plants with variable crown density, 11122  
     Federal seed act—  
         amend, law, 400  
         State noxious weed seed requirements in administration, 2138  
         supplement, 2139  
     field, acreage, yield, production, etc. U.S., 1960-64 crop years, 8755  
     field seeds, supply and disappearance, crop years 1959-64, U.S., 5680  
     foreign agriculture circulars, 3345  
     fourwing saltbush, percentage fill, 11128  
     seed crops—  
         forecast, 3859  
         prices, 3860  
         stocks report, 3861  
     seed fall and regeneration from group selection cut, 1st year results, 4840

Seeds—Continued  
     size and germination of white pine seed collected at weekly intervals, 12580  
     trees and shrubs, dealers' directory, 8125  
     what producers, processors, distributors, and suppliers should do in national emergency, 1715  
     *see also* Grasses—*also* names of plants.  
 Seedskadee National Wildlife Refuge, birds, list, 11086  
 Seefeldt, August C., relief, 336, 603  
 Seefeldt, Merritt A., relief, 336, 603  
 Seegrift, Donald W., measuring bitterbrush seed production on plants with variable crown density, 11122  
 Seeley, David S.:  
     address, Nov. 16, 1966, 4718  
     desegregation guidelines, 9398  
 Segal, Dorothy B., index-catalogue of medical and veterinary zoology, 14-15, 13205  
 Segel, L., rotor air loads, etc., caused by transient inputs of shaft torque as related to stoppage rotor operation, 13308  
 Segmented, arch-bound carbon seal in pressure loaded, 16959  
 Seidel, Kenneth W.:  
     cordwood yields from thinnings in young oak stands in Missouri Ozarks, 2307  
     shortleaf pine seedling inventory methods on broadcast-seeded areas in Missouri Ozarks, 8072  
 Selden, Jacob, research review, Office of Aerospace Research, 8827  
 Seisdedos, Manuel Alpendre, *see* Alpendre  
 Seisdedos, Manuel.  
 Seismic waves, *see* Tsunami (tidal wave).  
 Seismograms, principles underlying interpretation, 1935  
 Seismology:  
     Alaska research studies, engineering seismology, 12117  
     Antarctic seismological bulletin (periodical), 3032  
     engineering seismology bulletin, 3793  
     Parkfield, Calif., earthquake, report, 1934  
     Parkfield-Cholame Calif., earthquakes of June-Aug. 1966, data, 9574  
     seismic decoupling at nuclear level, project Dribble, Salmon event—  
         earth vibrations from nuclear explosion in salt dome, 8911  
         seismic velocity determination and distance measurements in salt dome, 1808  
         timing and firing, 1810  
         vent-gas treatment plant, 1809  
     seismic reflection profiles along drill holes on continental margin off Florida, 15311  
     seismicity of Yakutia, USSR book, 16769  
     seismological bulletin (periodical), 3862  
         South Pole-Byrd supplement, 3863  
 Selby, Rose T., premium pay provisions for weekend work in 7 continuous-process industries, 5057  
 Select Commission on Western Hemisphere Immigration, appropriations, 1967, supplemental, hearings, 2040  
 Selecting a barem and other applications of policy-capturing model, 15893  
 Selections from Historic American Buildings Survey, 11616  
 Selective service, *see* Conscription.  
 Selective Service, National Advisory Commission on, *see* National Advisory Commission on Selective Service.  
 Selective Service System:  
     annual report, 2852  
     appropriations, 1968—  
         hearings, 9145, 15147  
         reports, 10600, 15131  
     local board memoranda, 3521  
     regulations, 3871  
     special monographs, 11786-788  
 Selenium:  
     materials survey, 16854  
     mineral market report, quarterly, 3872

Selenium rectifiers, *see* Rectifiers.  
Self and service enrichment through Federal training, annex to report of Presidential Task Force on Career Advancement, 10030  
Self-organizing control systems, 9617  
Selig, S. M., naval research logistics quarterly, 3606  
Sellers, Bach:  
    generation and practical use of monoenergetic X-rays from alpha emitting isotopes, 4234  
    radioisotope gauge for monitoring suspended sediment concentration in rivers and streams, 1794  
Selling, *see* Salesmen and salesmanship.  
Selling to AEC, errata, 4245  
Selling to military, 2158  
Selling to Navy prime contractors, 17100  
Sellmann, Paul V., geology of permafrost tunnel, Fairbanks, Alaska, 17378  
Semenov, Nikolay, USSR academician, press interviews, 12706, 14233  
Semi-active gravity gradient system, *see* Satellites.  
Semiconductors:  
    conference on production, Hungary, 9634  
    devices—  
        fabrication by transmutation doping, 12010  
        high reliability screening, 9800  
        process controls introduction of selected impurities into wafers, 16949  
        second breakdown, bibliography, 18082  
        tested without removing from circuitry, 2622  
        ultrachemical analysis, status, 11467  
Seminar on Intense neutron sources, proceedings, 13315  
Seminar on Manpower Policy and Program, proceedings, 5041-45, 17886  
Seminole County, Fla., soil survey, report, 2876  
Semiotics, problems, cybernetics in service of Communism, USSR studies, 12742  
SEMIRAD (secondary-electron mixed radiation dosimeters), *see* Dosimeters.  
Semmler, R. A., isotopic X-ray sources for portable stress analysis equipment, 14809  
Senate:  
    appropriations, 1968, legislative—  
        amendments, 13723  
        hearings, 12398  
        law, 13537  
        reports, 13672, 13813  
        calendar, executive, 3503  
        calendar of business, 3487  
        classification of United States Senators, 762  
        committee funds authorized and expended for inquiries and investigations, staff study, 4659  
        delegation—  
            7th Mexico-United States Interparliamentary group meeting report, 12408  
            9th meeting of Canada-United States Interparliamentary Group, report, 764  
            10th meeting of Canada-Interparliamentary Group, report, 15058  
        invitations from foreign governments, etc., President of Senate to respond, 10781  
        journal, 89th Cong., 2d sess., 6050  
        legislative employees, training opportunities, report, 16232  
        manual, 10691  
        office space, additional, hearing, 15176  
        officers and employees, training under Government employees' training act, hearing, 16431  
        seals, history, 2080  
        Secretary Emery L. Frazier, tributes upon retirement, 2075  
        Secretary, reports, 7768, 15060  
        Senator Leverett Saltonstall, tributes upon retirement, 2077  
        Senator Spessard Lindsey Holland, tributes commemorating 20 years of service, 765

Senate—Continued  
    standing committees and committee assignments of Senators—  
        89th Congress, list, 758  
        90th Congress, list, 9179  
    standing rules, study, authorization, report, 4612  
    subcommittees, together with select, special and joint committees, list,—  
        89th Congress, 2d session, 759  
        90th Congress, 1st session, 7766  
    telephone directory, 760, 10089  
    Senate bills, enactment into law, procedure, prior revised edition, report, 12369  
    Senate documents, 761-767, 2067-80, 4569-73, 6051-63, 7768-70, 9180-83, 10690-702, 12320-323, 13720-724, 15055-61, 16347-350, 17615-617  
    Senate executive documents, 4574-75, 7771-72, 9184-86, 10703, 13725, 16351, 17618  
    Senate executive reports, 6064-67, 7773-75, 9187-90, 13726, 15062-64, 16352, 17619-620  
    Senate reports:  
        private bills, 768-872, 2081-82, 4576-80, 9191-9263, 10704-725, 12324-358, 13727-788, 15065-73, 16353-358, 17621  
        public bills, 873-936, 2083-2120, 4581-4627, 6068-87, 7776-89, 9264-98, 10726-795, 12359-395, 13789-837, 15074-143, 16359-386, 17622-632  
    Senators, *see* Senate.  
Seneca Indiana, morphology and dictionary, 13001  
Senegal:  
    agricultural economy in brief, 992  
    background notes, 17215  
    labor conditions, 2512  
    mineral industry, minerals yearbook chapter, 8363  
Seney National Wildlife Refuge, birds, list, 17778  
Senior citizens, *see* Aged.  
Senior Citizens Month, May 1967, guide to community action and year-round activity, 8802  
Senra, Antonio J., and wife, relief, 532  
Sense organs, sensory impairments, estimated range and cost of disability, 11745  
Sensitivity:  
    experiments, computer program simulates, 11439  
    radiation, of structural steels, metallurgical variables as possible factors controlling, initial evaluations, 5357  
    testing, of explosives, combination statistical design, 9754  
    theory, application to space vehicle flight control systems, 12873  
Sensors:  
    acceleration, having various mounting characteristics, dynamic response to impact loadings, 11521  
    attitude, for spacecraft, survey, 12882  
    electrochemical carbon dioxide, 17354  
    flow-test device fits into restricted access passages, 9840  
    glow discharge density, probe life extended, 14430  
    heat flux sensor design reduces extraneous source effects, 2656  
    humidity, fluidic oscillator used for measuring, 8473  
    image, transfer characteristics, plotter design simplifies, 12915  
    in-flight ablation measurements of thermal-protection materials, 1494  
    inertial testing, limitations produced by test platform vibrations, 1492  
    measure surface ablation rate of reentry vehicle heat shield, 6758  
    point-source light, circuit insensitive to background light, 2637  
    polarographic oxygen, new electrolyte may increase life, 6740  
    pressure, miniature capacitor devised, 6747



**Sensors—Continued**

- remote—
  - light sources for sensing systems, 16893
  - sensing, potential from space platforms, agricultural application, 15843
  - survey of detectors and dynamic calibration methods, 9809
- star sensor fields of view determined by analytical approach, 11557
- Sensory Aids and Prosthetic Service, Veterans Admin., *see* Prosthetic and Sensory Aids Service, Veterans Admin.
- Sensory deprivation:
  - effects of sensory deprivation on sensory, perceptual, motor, cognitive, and physiological functions, 8419
  - prolonged stage 4 and 1-REM sleep deprivation, comparison of effects, 15900
- Sensory diseases, *see* Sense organs.
- Sentences (legal):
  - appellate review, provide, report, 12394
- Separation processes:
  - heavy liquid cyclone, concentration of minerals, 12822
  - technique provides rapid quantitative determination of cesium-137 in irradiated nuclear fuel, 12845
- Sepsidae, *see* Flies.
- Sequential analysis, finite sequential machines, generalized decomposition theory, 18008
- Sequential machines, *see* Sequential analysis.
- Sequential tests, nonparametric, randomness in sequences, 5248
- Sesqui National Park, map, 5321
- Serial act (congressional), 247-249, 1967-69, 4458, 7587, 10473-475, 12141-142, 16119-121, 17486-489
- Serials:
  - catalog of copyright entries, 12432, 16451
  - new serial titles—
    - classified subject arrangement, 3626
    - union list, alphabetical arrangement, 3627
- Seris, ISPO 1, 182, 1885, 4360, 5898-99, 7496, 10387
- Seris, H., measurement of low frequency vibrations in big helicopters and their transmission to pilot, 11564
- Serpan, Charles Z., Jr.:
  - neutron exposure criteria for evaluating embrittlement of reactor pressure vessel steels, 5355
  - neutron spectral considerations affecting projected estimates of radiation embrittlement of Army SM-1A reactor pressure vessel, 1554
  - through-thickness notch ductility and tension properties as function of neutron exposure to simulated pressure vessel wall of A 302-B steel, 17093
- Serpentine:
  - alpine type serpentinites, metasomatic reaction zones related to emplacement and formation, 17817
  - minerals, reevaluation of differential solution method, 8160
  - thermodynamic properties, 11387
- Serpukhov, Russian SFSR, radiotelescope, construction completed, 8255
- Serum and serumtherapy:
  - human serum parameters for simulated altitude aerospace flights, change in—
    - albumin, gamma globulin, albumin/gamma globulin ratio, and A/G ratio, 8868
    - potassium, sodium and chloride, 7341
    - protein concentration, 7342
  - serum cholesterol levels of adults, 8661
  - serum glucose levels, periodontal status, 4178
  - serum ionic calcium measurement by use of specific ion electrode, 13271
- Servants:
  - Illinois labor laws relating to private-household workers, fact sheet, 10137

**Servants—Continued**

- social security—
  - coverage for household employees, 11795
  - good news for household workers, 7122
  - household employer's tax guide, 2401
  - household worker statistics, 2871
- Service, Alfred L., evaluation of western phosphate industry, and its resources, trends and outlook, 11371
- Service and regulatory announcements, Consumer and Marketing Service, 964, 6132
- Service contract act of 1965, *see* Government contracts.
- Service Corps of Retired Executives:
  - new ideas? ask SCORE, 13116
  - SCORE, general information, 18201
- Service establishments, retail and service enterprises and establishments under fair labor standards act as amended, 8788
- Service industries:
  - census of business, 1963, selected services, subject reports, bound volume, 8932
  - East European, translations, 3958
  - health service industry, technology and manpower, 1965-75, report, 11297
  - problems and prospects (address), 15985
- Service records, *see* Military records.
- Service ribbons, Navy and Marine Corps, ribbons of decorations and awards (poster), 11663
- Service stations, gasoline, census of business, 1963, retail trade, 4270
- Service trades:
  - census of business, 1963, selected services, subject reports, bound volume, 8932
  - current selected services report, 7490
  - equipment, Federal item identification guides for supply cataloging, supplements, 3287
  - recordkeeping systems, bibliography, 2856
  - selected services, monthly receipts, 7490
- Service, USDA's report to consumers, 3873
- Servicemen, *see* Armed Forces.
- Services for Indians, 16517
- Services for you from USDA's Consumer and Marketing Service, 1711
- Services to public provided by Wage and Hour and Public Contracts Divisions, 1666, 8789
- Serving America as woman marine, 11341
- Serving those who serve children, 2532
- Servomechanisms:
  - hovering performance characteristics of rotor with and without blade-pitch servo-control flaps, 5260
  - quick-response servo amplifies small hydraulic pressure differences, 6696
- Sesco, Jerry A., stadium seating, market analysis, 14132
- Setien, Alberto J. Oteiza, *see* Oteiza, Alberto.
- Setun, *see* Electronic computers.
- Seven steps to equal employment opportunity, 4750
- Severance, Roger D., establishing business in Iran, 13467
- Severance pay, *see* Salaries.
- Severe Storms Laboratory, *see* National Severe Storms Laboratory.
- Sewier River and Valley, upper basin, ground-water conditions and geologic reconnaissance, 14180
- Servine, hog-lot equipment, 17312
- Sewage:
  - municipal waste treatment and future construction needs, Federal incentive grants, report, 8010
  - Potomac interceptor sewer, increase Federal contribution to cost—
    - hearings, 13703, 13858
    - law, 17538
    - reports, 14995, 15101
  - sewerage systems, community, minimum design standards, 4908
  - treatment equipment, Federal item identification guides for supply cataloging, supplements, 3288

- Sewage—Continued  
waste disposal systems, financial assistance to small towns and rural groups in Oklahoma, questions and answers, 7945  
waste treatment, selected biological references, 8011  
wastewater utilities, capital expenditures, 1964, distribution, 4260  
water and sewer facilities grant program, HUD consumer bulletin, 17838  
water and wastewater facilities, 1955-80, regional construction requirements, 17417
- Sewall, John L., vibration analysis of cylindrically curved panels, etc., 5263
- Sewall, Robert L., five-year market forecast for commuter railroad cars, 4261
- Seward, Alaska earthquake of Mar. 27, 1964, effects, 11175
- Sewerage, see Sewage.
- Sewers, see Sewage.
- Sewing:  
by hand, teaching guide for home economics program aides, 7286  
fix new clothes to make them last longer, 7287  
simplified clothing construction, 14743, 17314
- Sewing machines, bag sewing operations, how to inspect chart, 9688
- Sex, discrimination in employment, laws, 17295
- Sex instruction:  
family life and sex education—  
articles, 16044  
bibliography, 6184  
goodbye to birds and bees, 10932
- Sextants, navigation measurements during lunar module rendezvous, analysis, 6903
- Sexual organs, see Generative organs.
- Seychelles:  
background notes, 14667  
capsule facts for Armed Forces, 15920  
labor conditions, 5078  
tracking stations, facility on Island of Mahé, agreement with Great Britain, 11847
- Seymour, Thomas H., fire and explosion prevention and protection, 8295
- SFCSI, special foreign currency science information program, 7551, 17464
- Shacklette, Hansford T., copper mosses as indicators of metal concentrations, 4886
- Shad, American, tagging summary, 8037
- Shadow box optical landing system, 11680
- Shafey, Sherif, relief, 9212, 12152, 12219
- Shafirin, Elaine C.:  
critical surface tension for spreading on liquid substrate, 10006  
effect of adsorbed water upon spreading of organic liquids on soda-lime glass, 18110
- Shafts, supercritical, on flexible supports, analysis of dynamics using transmission line analogy, 1773
- Shakers (apparatus):  
use for determination of fixed base natural frequencies of shipboard equipments, 11673  
vibrator elapsed time, automatically controlled, 15548
- Shale:  
Chattanooga, investigations, 9783
- Pierre—  
stratigraphy, paleontology, and sedimentation of classic reference locality (series), 2363, 8161  
upper Cretaceous gastropods, Red Bird, Wyo., 8161  
upper Cretaceous, Red Bird section, Wyo., 2363  
see also Oil shale.
- Shale oil, specific gravity from Colorado's Green River formation, 2587
- Shambon, Arthur, spectral energy distribution of unfiltered X-rays from 250 kV constant potential machine, 1789
- Shanghai, China, Municipal Bureau of Machine and Electrical Industries, product standards, Communist China, 12759
- Shanbholz, V. O., computer systems for reduction and analysis of hydrologic data, 13197
- Shannon, Ira L.:  
Carlson-Crittenden device for collection of human parotid fluid, 10240  
dental caries status of U.S. Air Force enlistees, 7353  
effect of—  
rate of gland function on parotid fluid uric acid levels, 11959  
uricosuric drug administration on uric acid levels in unstimulated parotid fluid, 11960  
hyperhydration and parotid flow in man, 7349  
mental exercise effect on parotid flow rate, 11963  
parotid fluid flow rate and periodontal status in human, 11965  
parotid versus extra-parotid flow in human, 11961  
periodontal status in relation to parotid fluid and serum glucose levels, 4178  
rapid transfer of cortisol from bloodstream to parotid fluid, 11962
- Shanny, Remy A., numerical experiments in plasma physics, 1791
- Shapers (tools):  
wood shaper, how to inspect chart, 9692
- Shapes (metal):  
Federal item identification guides for supply cataloging, supplements, 3288
- Shapes of tomorrow, supplement in space oriented geometry for secondary levels, 8513
- Shapiro, H., synthesis of higher order hydrocarbons on hot tungsten filaments, 8504
- Shapiro, Karl, Randall Jarrell, lecture, 12780
- Shardanand, absorption coefficients of O<sub>2</sub> at oxygen windows, 18050
- Share-cropping:  
employer-employee relationships in agriculture sharecropping—  
arrangements or landlord-tenant agreements under fair labor standards act, guide, 13176  
arrangements provide for shares of crops as rental payments in farm operations, 7223
- Sharkey, Andrew G., jr.:  
analytical methods of mass spectrometry, 11351  
comparison of products from high-temperature irradiation and carbonization of coal, 2572
- Sharks:  
calligid copepods parasitic on sharks of Indian Ocean, 6958  
genus *Isurus*, revision and description of new species, 6946  
hammerhead sharks (family Sphyrnidae), revision, 9952
- Sharp, Ulysses G., testimony, 16394
- Sharpnack, David A., predicting volcanoes in 4 Hawaii hardwoods, 1st multicariate equations developed, 8084
- Shaw, Byron B., use of quality and quantity of publications as criteria for evaluating scientists, 1709
- Shaw, Henny L., history of Marine Corps operations in World War II central Pacific drive, 12783
- Shaw, Van E., extraction of euxenite metal values by fusion with ammonium sulfate or ammonium bisulfate, 6685

- Shaw, William H.:  
nomination, hearings, 6094  
remarks—  
Oct. 24, 1966, 235  
Nov. 22, 1966, 1966  
Feb. 7, 1967, 5950  
Feb. 23, 1967, 5949  
Mar. 18, 1967, 7565  
Mar. 28, 1967, 7570  
May 11, 1967, 10453  
Aug. 3, 1967, 13453  
Oct. 23, 1967, 17471
- Shawe, D. R., bedded barlite in East North  
umberland Canyon, Nye County, Nev.,  
16689
- Shawnee County, Kans., geology, 11161
- Shea, John J., relief, 10536, 13510, 13755
- Shea, Timothy J., and wife, relief, 831,  
13730
- Shear (mechanics):  
combined effects of buoyancy and shear on  
weak homogeneous turbulence, 11542
- Shearer, Raymond C.:  
development of ponderosa pine progeny in  
western Montana, 6365  
isolation limits initial establishment of  
western larch seedlings, 14088  
performance of 14-year-old *Pinus ponderosa*  
hybrids in western Montana, 8067
- Shearin, John G., experimental simulation of  
reaction jet damping and attitude control  
system for spinning body, 8485
- Sheck See Hom, *see* Hom Sheck See, and  
wife.
- Shedd, Edward S., electrowinning and tap-  
pling of lanthanum metal, 2586
- Sheep:  
bluetongue incidence, 13  
on feed, 5556-57, 5681, 8759  
scabies, eradication, methods, etc., 5666  
stocker and feeder, shipments, 3875
- Sheep ranges, *see* Range lands.
- Sheet glass, *see* Glass.
- Sheet metal:  
Federal item identification guides for sup-  
ply cataloging, supplements, 3288  
sheet-metal ware, making, classification  
definitions, 17104  
titanium alloy sheet, fracture toughness,  
11552
- Sheet-plastic, thin plastic sheet eliminates  
need for expensive plating, 6836
- Sheets, current industrial reports, 4339-40,  
12680, 17435
- Sheffer, Herman W., mineral industry of  
Utah, 5121
- Shelfield, George V., Livermore 1-2 stellera-  
tor, 13329
- Sheibley, Dean W., infrared spectra of metal  
oxides, 2723
- Shiefer, Victor J., white-collar pay supple-  
ments, expenditures of employers in pri-  
vate industry, 6620
- Shekarchi, E.:  
mineral industry of—  
Ceylon, 8344  
Cyprus, 6648  
Iran, 8353  
Pakistan, 8361  
Turkey, 8369
- Shelby County, Tenn., employment, adminis-  
tration of justice, and health services, civil  
rights report, 14851
- Shellfish:  
Alabama landings, 3024, 16616  
buying guide, and recipes for school  
lunches, quantity amounts, 15257  
California landings, 3073  
Florida landings, 3338, 16611  
Georgia landings, 3378, 16613  
Louisiana landings, 1075, 3530  
Maine landings, 3533, 12541  
Maryland landings, 3545, 17770  
Massachusetts landings, 3546  
by ports, summary, 12543
- Shellfish—Continued  
Mississippi landings, 3564, 16615  
New Jersey landings, 3621, 12540  
New York landings, 3628, 14054  
North Carolina landings, 3638, 17771  
Oregon landings, 17769  
Pacific Coast fisheries, annual summary,  
9510  
poisoning, feasibility of mass outdoor cul-  
tivation of *Gonyaulax catenella*, 15684  
production areas, national register, 7078  
radiation pasteurization, summary report,  
13341  
Rhode Island landings, 3836, 12542  
sanitation research, Northwest planning  
conference, proceedings, 15683  
shipper, list, 3089  
situation and outlook (periodical), 3874  
South Atlantic fisheries, annual summary,  
9505  
South Carolina landings, 3884, 16614  
Texas landings, 3934  
Virginia landings, 4038, 16618
- Shells (aircraft):  
spherical closed sandwich shells, natural  
frequencies, determined by computer  
program, 16939  
stiffness matrix solution for shells of re-  
volution processing variable thicknesses  
heat protection, 11514
- Shells (ordnance):  
excise taxes, amend internal revenue code,  
reports, 2027, 7698
- Shells (structural):  
axially symmetric response of elastic cy-  
lindrical shell partially filled with  
liquid, 6907  
computer program for finite-difference solu-  
tions of shells of revolution under asym-  
metric loads, 11497  
configuration modifications effects in aero-  
dynamic characteristics of tension shell  
shapes, 14475  
conical, truncated—  
prebuckling deformation influence on  
buckling load, 5187  
sandwich and ring-stiffened, subjected  
to external pressure, effect of edge  
constraint on buckling, 11417  
cylindrical, thermoelastic and viscoelastic  
sandwich construction equations, 1436  
deformation of shallow spherical sandwich  
shells under local loading, 6895  
eccentrically stiffened shallow shells of  
double curvature, 6873  
nonlinear problems, incremental procedure  
for solution, 2727  
paraboloidal shells of revolution, dif-  
ferential equations of axisymmetric vi-  
bration, 17946  
tension shell and blunted 100° conical  
shapes for unmanned entry vehicles,  
transonic aerodynamic investigation,  
1504  
vibration and buckling of prestressed  
shells of revolution, 6878  
*see also* Tension shells.
- Shells (toroidal):  
pressurized—  
Investigation, 11454  
vibration study, 16907-908
- Shelter belts:  
northern Great Plains, 1689  
tree planters' notes, 1099, 8125-27
- Sheltered workshops, pathway to regular  
employment, 6393
- Shelters, *see* Picnic shelters.
- Shelters (protective), *see* Protective shelters.
- Shelterwood method for regenerating sand  
pine, 9539
- Shenandoah (USS):  
deployment to Malta, agreement, 2904
- Shepard, Charles E., study of artificial  
meteors as ablators, 8480

# INDEX 1967

- Shepard, Harold H. :  
fertilizer supply, 8519  
pesticide review, 20
- Shepardson, Chas. N. :  
remarks—  
Nov. 3, 1966, 1061  
Nov. 11, 1966, 1069  
Mar. 8, 1967, 6298
- Shepherd, C. M., high-rate batteries, 8596
- Sheppard, Harold L., worker attitudes in job seeking, 1021
- Sherer, D. G., fast reactor transient response and safety in selected accidents, 5772
- Sheridan, Douglas M., geology and uranium deposits of Kalston Buttes district, Jefferson County, Colo., 15308
- Sheridan, Eugene T., advance data on coke and coal chemicals, 15462
- Sheridan, Matthew J. :  
mineral industry of Nebraska, 2559  
urbanization and its impact on mineral aggregate industry in Denver, Colo., area, 6637
- Sherman, May, congenital heart disease, review of research grants supported by National Heart Institute, 13677
- Sherill, William W., nomination, hearing, 9308
- Sherwin, C. W., 1st interim report on Project Hindsight, summary, 7857
- Sherwin, Chalmers W., address, May 3, 1967, 10457
- Sherwood, T. K., research on saline water conversion by freezing, 9593
- Sherwood Island State Park, behavior of beach fill and borrow area, 13976
- Shevchenko, Russian SFSR, distillation desalination equipment, diagram, equipment design, etc., 11270
- Shielding :  
ablative heat shield materials for X-15-2, arc-tunnel evaluation, 5238  
fallout radiation shielding, 14847  
irradiation of natural animal populations, design of shielded source, 1782  
radiation, applied to nuclear defense planning, analysis and design principles, 4384  
reactor shielding physics, problems, 12972  
shelter through architectural design, shielding requirements influence on form, 8981  
*see also* Heat shields.
- Shields, Joseph J., longwall mining in bituminous coal mines with planers, shearers-loaders, and self-advancing hydraulic roof supports, 6638
- Shields, Ruth H., depth of flash optical landing system, 13032
- Shields, William R., Analytical Mass Spectrometry Section, activities, 17041
- Shields :  
inert gas, monitored by portable spectrometer in welding process, 16960  
welders' hand-held shield, military standard, 9372
- Shigella, comparison of differential agar with Sellers citrate-mannitol-agar, 10233
- Shigo, Alex L., defects in birch associated with injuries made by *Xyloterinus pollitus* Say, 4833
- Shiller, William R., dental caries increments evaluated by use of bite-wing roentgenograms, 14321
- Shimanouchi, Takehiko, tables of molecular vibration frequencies, 8524, 18077
- Shin Pond quadrangle, Maine, bedrock geology, 17825
- Shinn, Arthur M., Jr., evaluation of ablative-material thrust chambers as components of storable-propellant rocket engines, 15555
- Ship models (church decoration) :  
duty-free entry for Lutheran Church of the Covenant, 7648, 14886, 16358
- Ship pilots, Great Lakes, survey, supplements, 12777, 14309, 16834-836
- Ship Structure Committee :  
biennial report, 5487  
serial no. SSC, 5487-89, 7108, 10070
- Shipbuilding :  
acoustical measurements, USSR excerpts, 15418  
and conversion program, 2774  
construction for nonsubsidized merchant and fishing fleets, hearing, 946  
contracts, price increases, Navy Department, GAO review, 2351  
Nikolayevsk plant reviews its progress, USSR, 15368  
performance and payment bonds, Maritime Administration policy, etc., GAO review, 2350  
relative cost in various coastal districts of U.S., annual report to Congress, 12788  
safety and health regulations, 9730
- Shipmasters, warning to masters of vessels, customs laws violations, 7843
- Shipments :  
defense-oriented industries, 1965, current industrial reports, 13394  
preliminary, 8946  
fresh fruit and vegetables, by States, commodities, etc., 10873-874  
manufacturers', current industrial reports, 3540  
truck-air cargo transportation services (remarks), 5911  
worldwide cargo transportation costs guide, Army Dept. pamphlet, 17380  
*see also* Freight—*also* names of articles shipped.
- Shippers :  
commodity transportation survey, census 1963, shipper groups, 1855, 7473  
regional air cargo workshop (periodical), 3813
- Shipping :  
act, 1916, amend—  
hearings, 4552, 13852, 16337  
report, 15084  
act, 1916, exemptions—  
hearings, 4552  
law, 482  
cargo preference act administration, concessional sales of surplus agricultural commodities, 4551  
code of Federal regulations, 6291, 9482, 11045, 12528, 14035  
containerization (remarks), 12787  
foreign trade—  
summary report, annual, 10399  
summary reports, monthly, 3998  
United States oceanborne, 1966 review, 17909  
waterborne, summary reports, 3987, 4362, 17441  
waterborne, trade area by coastal district, monthly report, 3356  
intercoastal act, 1933, amend, hearings, 16337  
international maritime traffic, convention, report, 6065  
laws, consolidate and reenact, proposed draft, 10828  
Maritime Day observance (remarks), 11016  
maritime matters, deployment of USS Yellowstone to Malta, agreement, 15800  
maritime services, radio stations on land, shipboard, etc., FCC rules and regulations, 3274  
merchant, weather service, 7230  
military cargoes, reduced ocean freight rates by U.S. flag vessels, hearings, 4552  
ocean transport capability, container/barge quandry (paper), 12785  
operations, renegotiation, 13107  
Vietnam, policy review, hearings, 743  
*see also* Transportation—Water carriers.

Shipping conferences, steamship lines in foreign commerce of U.S., approved conference, rate and interconference agreements, 3037, 16576

Shipping containers, *see* Containers.  
Ships:

and marine equipment, Federal item identification guides for supply cataloging, supplements, 3293

Coast Guard, authorization for procurement—

hearings, 7752, 10827

law, 13524

reports, 10556, 12378

Coast Guard Reserve INACDUTRA, afloat training guide, 14878

construction, *see*, in main alphabet, Shipbuilding.

dry cargo ships, results from full-scale measurements of midship bending stresses, report, 10076

fabrication, welding, and inspection of machinery, piping and pressure vessels, military standard, 2154

Federal item identification guides for supply cataloging, supplements, 3293

fires, amendments to International Convention on Safety of Life at Sea—report, 7773  
text, 6062

foreign built or rebuilt, prevent carrying cargoes restricted to U.S. vessels, hearings, 4552

Government-owned vessels supporting military activities in southeast Asia, financing operations, Maritime Admin., GAO report, 14157

international maritime traffic, facilitation, convention, 4688

loan, agreement with—

Brazil, 15788, 15798

China., Republic of, 15790

loan, extension, agreement with—

China, Republic of, 15791

New Zealand, 15771

Peru, 2930

Philippines, 7172

loan, reduction, agreement with Japan, 17244

loans, extension, and new loan, authorize, report, 10555

loans now in existence, authorize, extension reports, 2025, 2101

magnetohydrodynamic propulsion, USSR study, 14256

manning of vessels, rules and regulations, 10446

masters, grant lien on certain vessels for wages and disbursements—

hearings, 10663

reports, 12250, 17632

merchant fleets of world, seagoing steam and motor, 1000 gross tons and over, 16844

merchant vessels—

equipment, Coast Guard approved lists, 9002

United States, monthly supplement, 3581, 9005

military procurement appropriations, 1967, report, 2014

military procurement appropriations, 1968—

hearings, 7797, 9149

law, 12164

reports, 7786, 10570, 10575, 10611

mortgage act, fees for documents, etc.—

hearings, 4552

law, 364

report, 887

mortgage documents, surrender, transfer authority to approve—

hearings, 9159, 10849

message from the President, 7598

naval, christening, launching, and commissioning, 11651

## Ships—Continued

Navy ships, lithographs, 11650

noise reduction and control, USSR studies, 6498

notice to mariners, vessels navigation safety, 3641, 7007

ocean survey, Oceanographer, OSS 01, welcome aboard, visitor's guide, 7939

oceanographic ship operating, schedules, 7957, 17753

oceanographic vessels of the world, 8568

repairing, safety and health regulations, 9728

safety aboard ships, 5091

security, Federal regulations, 10448

shipboard equipment, dual foundation, determination of fixed base nautical frequencies by shake tests, 11673

shipbreaking, safety and health regulations, 9729

shock mounts for shipboard equipment, guide for selection & application, 8601

small, inland, Great Lakes and western rivers rules, amend, law, 468

small vessels, simplify admeasurement, hearings, 745

Soviet oceanographic ship conducts marine research in Pacific, 14240

tropical Atlantic Ocean, Equalant III data report, 8569

underwater ships of science, USSR, 8267

undocumented, rules and regulations for numbering, 9007

uninsured vessels, rules and regulations, 10447

vessel repair contracts renegotiability, revocation, 13108

wages, hours of work on board, and manning of vessels, recommendations adopted at ILO convention, withdrawal of treaty, text, 15064

wastes from watercraft, report of Interior Dept. to Congress, 16349

print as Senate document, report, 15141

*see also* Fishing vessels—Hulls (ships)—Warships—*also* names of ships.

Ship's servicemen, *see* Navy.

Shipyards:

earnings, straight-time hourly, indexes of change, 3414

maritime safety digest (periodical), 3542

safety in industry, maritime safety data, shipboard ventilation for hazardous atmospheres, 8299

Shirley, Lawrence E., mineral industry of Florida, 5110

Shirley, Willifred S., relief, 604, 7643, 13785, 14902

Shirts, new plant at Gassville, Ark., rural industrialization case study, 17711

Shiskin, Julius, X-11 variant of census method II seasonal adjustment method, 5902

Shiu, Cln Shee, relief, 9262, 13563, 16126

Shivers, James P., hovering performance of rotor with and without blade-pitch servo-control flaps, 5260

Shmelzer, June L., learning in action, selected issues in training and demonstration projects, 2973

Shock (mechanical):

lateral ring metal elastic wheel absorbs shock loading, 6821

perforations in jet engine supersonic inlet increase shock stability, 2655

shock and vibration monograph series, 17705

spiral spring/strain gage combination accurately measures shock induced deflection, 1468

*see also* Thermal shock.

Shock mounts:

long travel, models 230, etc., rail impact testing, 14805

shipboard equipment, guide for selection and application, 8601

# INDEX 1967

- Shock tubes, circular, test times and boundary layer induced property variations, 5242
- Shock waves:  
CN violet radiation behind shock waves in air contaminated with carbon-bearing compounds, analysis models, 9905  
data, compendium, 5793  
impingement effects on heat transfer on cylindrical leading edge, 6896  
methods for predicting flow in shock layer over bodies at small angles of attack, 11507  
normal wave, numerical results for diffraction by sphere and for transient flow, 17015  
prediction of shock-layer radiation from molecular band systems in proposed planetary atmospheres, 6890  
strong, in carbon dioxide, coupled vibration and dissociation relaxation, 6908
- Shoes, *see* Boots and shoes.
- Shook, Donald F.:  
ages of plutonium-beryllium neutrons in tungsten-water media, 1502  
resonance integrals of tungsten isotopes, 9914
- Shooting, marksmanship, ROTC manual, 1766
- Shop practices, *see* Machine shops.
- Shops, *see* Pet shops.
- Shore, Milton F., red is color of hurting, planning for children in hospital, 11758
- Shore protection:  
dune stabilization with vegetation on Outer Banks, N.C., 16523  
groin design variations, 16521  
New York and New Jersey, correlation of littoral transport with wave energy, 7925, 10954  
planning and design, 1022  
stability of rubble-mound tsunami barrier, Hilo Harbor, Hawaii, 16526  
wave tests of revetment using machine-produced interlocking blocks, 16519
- Shorette, Marilyn, relief, 13624, 17499
- Short, Barbara J., dynamic flight behavior of ballasted sphere at Mach numbers from 0.4 to 14.5, 8029
- Short wave logarithmic antenna, USSR, 11247
- Shortened horn-reflector antenna, 8452
- Shortleaf pine, *see* Pine.
- Shot peening, glass bead, retards stress corrosion failure of titanium tanks, 14413
- Shoulder, restraint installation in general aviation aircraft, recommendations, 7446
- Shreveport, La., population, special census, 4354
- Shrews, subfamilies and genera of Soricidae, classification, zoogeography and temporal correlation, 14173
- Shride, Andrew F., younger Precambrian geology in southern Arizona, 16696
- Shrimps:  
breaded—  
annual summary, 9511  
current fishery statistics, 3336  
Gulf Coast, data, 3386  
landings, 3876, 16610
- Shrine, Mystic, *see* Ancient Arable Order of Nobles of Mystic Shrine.
- Shrout, Barrett L., aerodynamic characteristics at Mach 2.03 of series of curved-leading-edge wings employing various degrees of twist and camber, 6874
- Shrub live oak, *see* Oak.
- Shrubs, seed and planting stock, commercial dealers, directory, 8125
- Shuford, Emir H., jr., cybernetic testing, 8864
- Shugars, Owen K.:  
costs and returns, commercial—  
egg-producing farms, New Jersey, 16489  
tobacco farm, Coastal Plain, North Carolina, 13943
- Shugars, Owen K.—Continued  
costs and returns, commercial—continued  
tobacco-livestock farms, Bluegrass area and Pennyroyal area, Ky.-Tenn., 16490
- Shulman, Stephen N., nomination, hearing, 9327
- Shultz, Janet L., mass spectrometric analyses of coal-tar distillates and residues, 14354
- Shultz, John F.:  
kinetics of gas synthesis using recycle systems, 9790  
noble metals, molybdenum, and tungsten in hydrocarbon synthesis, 12827
- Shutters, color-coded sleeve, use to accelerate oscillograph channel selection, 17991
- Sibbald, David M. H., MAC flyer, 3531
- Siberia:  
central, Bratsk and Krasnolensk hydroelectric projects, bibliography, 8665  
east coast, sailing directions, change, 14577  
eastern, new Soviet academic settlement in Irkutsk, 9637  
scientific labor organization proves effective at Siberian mining institute, 4263  
southeast coast, sailing directions, change, 11640
- Sick:  
acute conditions, incidence and associated disability, 14637  
chronic illness among residents of nursing and personal care homes, May-June 1964, U.S. statistics, 11764  
chronically ill—  
charges for care in institutions, 17169  
dental care, 13089  
duration of illness, medical service data, Air Force pamphlet, 8858  
financial protection for Federal employees, 1925  
health interview survey, standardized morbidity ratios for measures of illness by family size, etc., 7097  
income-loss protection against short-term sickness, 2866  
prevalence of chronic conditions and impairments among residents of nursing and personal care homes, 14639  
publications, price list, 2801  
smoking and illness, effects of tobacco, etc., 13094, 18186  
transportation of sick and wounded, Army field manual, 100
- Sick leave, *see* Leave of absence.
- Sidewalks:  
emergency construction at military installations, general provisions and geometric designs, 5742  
flexible pavement design, emergency construction, Army technical manual, 10277
- Siding, asphalt and tar, current industrial reports, 3169, 5854
- Sidorsky, Raymond C., research on generalized skills related to tactical decision making, 9982
- Sieder, Violet M., rehabilitation agency and community work, source book for professional training, 7222
- Siegel, Jacob S., revised projections of school and college enrollment in United States, 10363
- Siegel, William C., forest tax trends in Louisiana, 8099
- Sielski, Matthew C., remarks, Mar. 29, 1967, 7567
- Sierra, Teresa, remarks, Apr. 27, 1967, 11700
- Sierra Leone:  
foreign trade regulations, 12135  
judicial procedure agreement, 7156  
labor conditions, 2513  
mineral industry, minerals yearbook chapter, 2564



Sierra Nevada :  
 Cenozoic volcanic rocks, 14170  
 Desolation primitive area, mineral resources, 11169  
 Mono Craters quadrangle, structure and metamorphism, 4887  
 Sight :  
 aircrew station vision requirements for military aircraft, military standards, 16470  
 color defective vision, diagnostic tests, bibliography, 17411  
 depth perception, problems, 138-139  
 eye research, NINDE, 8631  
 flashblindness experiment in F-4C flight simulator, 1738  
 night vision, oxygen breathing effects, 11347  
 peripheral vision displays, 12865  
 underwater visual resolution, 14317  
*see also* Color perception—Optical illusion.  
 Sigman, Donald R., ion cyclotron wave generation in uniform and nonuniform plasma including electron inertia effects, 12962  
 Sign language, voice of the silent stage, 4723  
 Signal construction battalion, field manual, 4205  
 Signal generators, electronic test instrument generates extremely small current signals, 17923  
 Signal lights, *see* Lights and lighting.  
 Signal processors, employing synthetic phase isolator, study, 11397  
 Signal systems, Federal item identification guides for supply cataloging, supplements, 3289  
 Signalmen, 1 & C, Navy training course, 15634  
 Signals :  
 aircrew station signals, military standard, 17700  
 auditory vigilance as affected by signal rate and intersignal interval variability, 11346  
 generator converts direct current to multiphase supplies, 17979  
 infrared frequency devices and correlation function measurement, USSR study, 9647  
 instrument automatically selects peak acceleration signal from several accelerometers, 1459  
 instrument sequentially samples ac signals from several accelerometers, 8461  
 local measurements in turbulent flows through cross correlation of optical signals, 8462  
 microminiature dc signal-conditioning amplifier, development, 14483  
 MOSFET analog memory circuit achieves long duration signal storage, 6766  
 patent classification definitions, 17105  
 patterning, effects upon vigilance performance and physiological responses, 8585  
 presentation rate, auditory threshold and group vigilance, 11349  
 probability distribution, 1st and 2d order, measuring system devised, 17085  
 signal large headquarters, operation company, Army field manual, 15937  
 single-sideband modulator accurately reproduces phase information, 1446  
 solid-state circuit averages multiple signals and rejects those varying significantly from the average, 15492  
 video, high-speed, single-shot transient, recording and time expansion technique, 11468  
 vigilance performance and physiological responses under fixed and variable schedules, 14590  
 visual, Army field manual, 5727  
*see also* Radio signals—Television.

Signs (advertising) :  
 compensation by States for removal under highway beautification act of 1965, opinion of Attorney General, 8279  
 Silazane elastomer remains resilient at 400° C. 6825  
 Silen, Roy R., simple, progressive tree improvement program for Douglas-fir, 8081  
 Silica :  
 isolation of components on silicon wafer using SiO<sub>2</sub>, 1423  
 lead-silica glass, viscosity of standard type, 1520  
 natural phases of system MgO-SiO<sub>2</sub>-H<sub>2</sub>O and systems containing congeners of magnesium (series), 8160  
 pyrogenic, study of thixotropic suspensions, 11679  
 reactions with manganese, 6684  
 Silicates :  
 far infrared spectra of silicate minerals, study, 9841  
 interface between ice and silicate surfaces, 11982  
 lithium-aluminum silicates, thermodynamic properties, 14355  
 potassium- and lithium-aluminum, heats of formation, 2577  
 Silicon :  
 diffusion of impurities into silicon from gaseous sources, 1421  
 electron transmission through thick silicon targets, 11498  
 energy required to produce electron-hole pair in silicon by tritons, 1501  
 high-purity single-crystal, proton bombardment, 11534  
 integrated circuits, improving contact bonds, 16965  
 minerals yearbook chapter, 1415  
 planar silicon devices, thermal and bias cycling stabilizes, 12902  
 Si-Fe sheet gage chemically reduced, 2624  
 SiC/Si diode trigger circuit provides automatic range switching for log amplifier, 17957  
 solar cells, introducing selected impurities, process for controlling, 16949  
 targets, thick, bombarded with 1.05 and 1.25 million volts electrons, X-ray spectra produced, 2683  
 wafer using SiO<sub>2</sub> isolation of components, 1423  
 Silicon carbide :  
 crystals, process facilitates photoresist mask alignment, 11473  
 SiC/Si diode trigger circuit provides automatic range switching for log amplifier, 17957  
 Silicon dioxide, *see* Silica.  
 Silicon tetrafluoride, separation of HF from HF-SiF<sub>4</sub>-H<sub>2</sub>O mixtures, 2581  
 Silk screen printing, equipment panels, eliminated with Mylar film, 1454  
 Silos, farm, 5656  
 Siloxanes, polydimethylsiloxane monolayers, surface viscosity, 8392  
 Silsby, Norman S., simulator study of pictorial navigation display in instrument departures of supersonic transport, 12944  
 Silurian period, Upper Silurian stratigraphy of northeastern Pennsylvania, New Jersey, and southeasternmost New York, 11167  
 Silver :  
 distribution—  
 Cripple Creek district, Colo., 9571  
 Ely mining district, White Pine County, Nev., 9564  
 in magnesium-base alloys, determination, 9985  
 mineral industry survey, monthly report, 3877  
 minerals yearbook chapter, 2589  
 palladium braze alloy recovered from masking materials, 6793

- Silver—Continued
  - production and consumption, 1964, report, 8381
  - silver-base ternary alloy proves superior for slip ring lead wires, 5212
  - solid palladium-silver alloys, thermodynamic properties, investigation by torsion-effusion technique, 17924
  - substituting gold for silver improves electrical connections, 15528
  - transfer by Treasury to national stockpile—
    - law, 12171
    - reports, 10602, 10765, 12248
  - United States movements—
    - annual, 12093
    - monthly, 3983
- Silver (money):
  - Mint Bureau, report, 8381
- Silver Bay (fishing vessel):
  - exploratory collection made in southwestern North Atlantic, 1956-60, correction, 8035
- Silver certificates:
  - redemption—
    - hearings, 9151, 10819
    - law, 12171
    - reports, 10602, 10765, 12248
- Silver oxide, electrode, changing discharge capacity by charging with interrupted current, 9998
- Silver plating:
  - blistering, undercoat prevents at elevated temperatures, 11444
  - ensures reliable diffusion bonding of dissimilar metals, 11461
  - technique seals leaks in thin wall tubing joints, 6699
- Silvey, William D., occurrence of selected minor elements in waters of California, 11186
- Silviculture, *see* Forests and forestry.
- Sim, Mary S., hospital laundry, 7071
- Simians:
  - vacuolating agents, SV 40 virus, Polish study, 9653
  - viruses, Rumanian studies, 6529
- Simmonds, F. A.:
  - determining scattering and absorption coefficients by diffuse illumination, 11114
  - review of methods for estimating harmful pitch in woodpulp, 11112
- Simmons, George C., Otter Creek coral bed and its fauna, east-central Kentucky, 6394
- Simmons, Joseph H., ultrasonic attenuation in superconducting niobium, 5273
- Simon, A. C., micrography of tubular battery plates, 8591
- Simon, Armando Teodoro Perez y, *see* Perez, Armando, S.
- Simon, Kenneth A., digest of educational statistics, 2180
- Simons, E. M., reactor materials, quarterly technical progress review, 3807
- Simonson, Marvin R., high gas temperature utilization for advanced tip turbine fans, 4221
- Simple motor drive system operates heavy hinged door, 8404
- Simple technique determines ac properties of hard superconductive materials, 6817
- Simplified clothing instruction, 14743
- Simplified fixture permits precision alignment of optical target, 2676
- Simplified practice recommendations, 1524, 6920
- Simpson, Fred H., small gas turbine engine component technology, etc., 10287
- Simpson, John R., rotor system for hot cycle heavy-lift helicopter, 10288
- Simpson, Milward L., tributes upon retirement as Senator, 2078
- Sims, P. K., petrology and structure of Precambrian rocks, Central City quadrangle, Colo., 12611
- Simulation:
  - analog computer, application of stereoscopic display system, 6757
  - applied mathematics, computers, and information models, USSR study, 16735
  - calibrations, liquid hydrogen turbine-type flowmeter using high-pressure gas, 5251
  - computer, plasma and many-body problems, symposium, 16928
  - equivalent circuit for field effect transistor established for computer simulation, 6844
  - gaseous core nuclear rocket mixing characteristics using cold and arc heated flows, 12848
  - Gemini-Agena docking, pilot controlled, full-size visual cues, 1495
  - IPR conditions, exposure of men to intermittent photic stimulation, 5802
  - in biology and medicine, USSR study, 15356
  - lunar module docking with Apollo command module in lunar orbit, 11520
  - olfactory sense and its modeling, USSR studies, 1326
  - passive analog, use for study of square plates, 5168
  - pilot-controlled docking of Apollo command and service module with lunar module, 2689
  - plotted study of manual guidance of upper stages of large launch vehicle, 9887
  - satellite telemetry data program, generalized, 1508
  - sensitivity experiments, computer program, 11439
  - static calibration of ejector unit for stimulation of jet engines in small-scale wind-tunnel models, 6899
  - transient analysis generator simulates behavior of electrical networks, 16954
- Simulators:
  - antenna, preinstallation system checkout, 2648
  - general purpose airborne simulator, 5161
  - nuclear reactor simulator for nonnuclear testing of space power systems, 14487
  - phonocardiogram, for physiological monitoring, 14434
  - real-time training, digital computation systems, military standard, 9373
  - space cabin, contaminants produced by man, 11955
  - star/horizon, use to test space guidance system, 11447
  - X-ray machine, 18191
  - see also* Flight simulators—Space simulators.
- Sinews of war, Army logistics, 1397
- Singapore:
  - background notes, 15762
  - capsule facts for Armed Forces, 15911
  - economy, basic data, 7575
  - mineral industry, minerals yearbook chapter, 6658
  - trade in cotton textiles, agreement, 2934
- Singer, Joseph M.:
  - equivalences and lower ignition limits of coal dust and methane mixtures, 9782
  - flame characteristics causing air pollution, production of oxides of nitrogen and carbon monoxide, 8378
  - reduction of incendiarity of hot gases, etc., 11383
- Singh, Jag J.:
  - electron transmission through thick silicon targets, 11498
  - X-ray spectra produced when thick silicon targets are bombarded with 1.05 and 1.25 million volts electrons, 2683
- Single Convention on Narcotic Drugs, 1961, *see* Narcotics.
- Single-sideband modulator accurately reproduces phase information in 2-Mc signals, 1446

- Single-span running skylines, 14102  
 Singleterry, Curtis R., movement of oil in miniature ball bearings, 17089  
 Siangkang Province, China, nature, and formation of deserts, study, 6585  
 Sinnhuber, R. O., effect of irradiation on microbial flora surviving irradiation pasteurization of seafoods, 1800  
 Sino-Soviet conflict, print additional copies, report, 2029  
 Sintering:  
   nephelitic charges, USSR study, 9645  
   process in snow, 10257  
   snow, role in construction, 15930  
   see also Lime-soda sintering.  
 Sinus Iridum, LAC 24, lunar chart, 7320  
 Sinusitis, allergy and sinus disease in aviators, 14782  
 Sioux Falls, S. Dak., area wage survey, 5065  
 Siple, George E., geology and ground water of Savannah River plant and vicinity, S.C., 16705  
 Sirea, see Bulls.  
 Sirken, Monroe G., utilization of short stay hospitals, 17170  
 Sirups, refiners', U.S. standards for grades, 15178  
   see also Maple sirup.  
 Sisco, Joseph J., address, Nov. 12, 1966, 5530  
 Sister Grove Creek Watershed, dedication of Texas' 1000th watershed project dam (address), 22  
 Site indexes:  
   Delaware-Maryland sweetgum stands in relation to soil characteristics, 4832  
   Douglas-fir, site curves, comparison, 2309  
   lodgepole pine, with corrections for stand density—  
     instructions for field use, 2333  
     methodology, 14145  
   table for aspen in southern and central Rocky Mountains, 2310  
 Sites:  
   acquisition and developing, for educational facilities, guide to Federal financial assistance programs, 10931  
   site clearing, safety in industry, instructor outline, 17887  
   use of water-meter records to estimate use on developed sites, 12579  
 6 steps forward, 17186  
 Skagerak, northern and eastern, sailing directions, change, 13023  
 Skagit River:  
   engineer report—  
     departmental edition, 4739  
     document edition, 4466  
 Skeletons, early skeletal from Tranquility, Calif., 1531  
 Skiing, see Skis and skiing.  
 Skilled workers, see Labor.  
 Skin:  
   cancer, 2816  
   cutaneous bacteriologic evaluation, man in oxygen-helium atmosphere, 84  
   surface, use of infrared absorption spectroscopy for representation of lipids, Yugoslavian study, 12667  
   test for schistosomiasis in Puerto Rico, survey for prevalence, 8654  
 Skin flora:  
   diet and atmosphere effect—  
     experimental data, 9799  
     literature survey, 2613  
 Skin friction (aircraft):  
   surbulent boundary layer—  
     periodic blowing through flush transverse slots on, effects, 1431  
     swept wings, wake momentum surveys measurement, 2725  
   turbulent, charts adapted from Spalding and Chi method, 11518  
 Skin-friction gages, flight demonstration to Mach number of 4.9, 6877  
 Skinner, Snider W., Senegal's agricultural economy in brief, 992  
 Skirts, changing the hem, 7283  
 Skirvin, Frederic A., purification of tungsten hexachloride, 14341  
 Skis and skiing:  
   national forests, America's playgrounds, 5667  
   national forests of Intermountain region, Americas winter playgrounds, 6372  
   trends and opportunities in Western States, 11133  
 Skokie, Ill., population, special census, 16025  
 Skolnik, Alfred M., workmen's compensation payments and costs, 2867  
 Skouson, Glenn W., isolation of components on silicon wafer using SiO<sub>2</sub>, 1423  
 Skovlin, Jon M., fluctuations in forage quality on summer range in Blue Mountains, 16663  
 Skull:  
   avian skull, kinesia, role of depressor mandibulae muscle, 11610  
   miniature piezoelectric triaxial accelerometer measures cranial accelerations, 2659  
 Skyline Churches Cemetery, land conveyance to, 288  
 Skyline tension and deflection handbook, 12584  
 Slabs:  
   reinforced concrete, influence of reinforcing details on yield line pattern and ultimate load-carrying capacity, 17736  
   slotted, transient radiation and conduction, 17941  
 Slack, Eileen S., aluminum industry in Japan, 9015  
 Slack, Keith V., Birch Creek, travertine depositing stream, Inyo County, Calif., 8171  
 Slade, Grant E., chemicals, quarterly industry reports, 3092  
 Slag:  
   blast-furnace and synthetic, heat content, 6675  
   iron-blast-furnace, minerals yearbook chapter, 2590  
 Slagle, Franklin D., densities and porosities of core samples from wells in Appalachian oilfields, 11353  
 Slash, see Forests and forestry.  
 Slash pine, see Pine.  
 Slate, blackboard, standard sizes, standards of trade, 5285  
 Slattey, J. C.:  
   ionization probability of iron particles at meteoric velocities, 11406  
   observation of micrometeorite craters in metal substrates utilizing micrographic replica methods, 9815  
 Slaughtering:  
   beef on farm, 4106  
   commercial slaughter, meat and lard production, etc., 11879  
   lamb and mutton on farm, 1690  
   livestock, monthly report, 2519  
   pork on farm, 8829  
 Slavery:  
   supplementary slavery convention—  
     hearings, 7806, 16410  
     report, 17619  
 Sleep:  
   deprivation, prolonged stage 4 and 1-REM, comparison of effects, 15900  
   human memory during natural sleep, input and consolidation of information, USSR book excerpts, 15362  
   natural, information input and fixation in human memory during, USSR study, 11285  
 Sleeping Bear Dunes National Lakeshore, establish, report, 636  
 Sleeves (industrial):  
   pipe joints reinforced in place with fitted aluminum sleeves, 15541, 17954  
 Siemon, David R., relief, 346

# INDEX 1967

- Slide rules, slide rule-type color chart predicts reproduced photo tones, 11436
- Slidefilms, *see* Filmslides.
- Slides (glass):
- microscope slide loader for thin-layer chromatography, 13272
- Silding of non-temperate glaciers, 7379
- Slip laws, *see* Law.
- Slip rings, *see* Electric slip rings.
- Slip tables, shaker system, air bearing provides friction-free support, 8402
- Slippers, *see* Boots and shoes.
- Slocum, Walter L., aspirations and expectations, guide to research, 17710
- Slopes:
- formation and stability on cohesionless materials, Plowshares program, 17398
  - measurement of peak discharge of streams by slope-area methods, techniques, 11185
- Sloshing:
- dynamics study in near zero gravity, vehicle and spacecraft description, 11530
  - fuel, bubble thickness effects, 2700
  - liquid, in elastic containers, 16906
- Sluchevskiy, I. F., biography, 2480
- Slums:
- causes, difficulties, and possible solutions to problems of ghetto (remarks), 17841
  - clearance—
    - local public agency letters, 3523
    - urban renewal manual, 4009
  - demonstration cities and metropolitan development act of 1966—
    - law, 465
    - law, summary, section-by-section analysis, legislative history, and conference report, 725
- Slurries, dewatering anthracite slurry, 15478
- SM series, 1905, 7528, 13427-432, 14846, 16056-57
- SM-1A reactor, *see* Reactors (atomic).
- Small, James B., horizontal and vertical crustal movement in Price William Sound, Alaska, 5940
- Small-area data activities, 3878
- Small arms, *see* Firearms.
- Small Boy project 62.80b aeroradioactivity survey, 12001
- Small business, *see* Business.
- Small Business Administration:
- administrator, nomination of Robert C. Mott, hearing, 13848
  - appropriations, 1967, law, 501
  - appropriations, 1968—
    - hearings, 10632, 16390
    - reports, 10616, 16372
  - authorizing legislation, amend—
    - hearings, 10820, 15020
    - law, 17549
    - reports, 12391, 14961, 14982, 16261
  - business loans, lending objectives, etc., 2855, 13117
  - economic injury disaster loans, etc., for displaced small businesses, 14643
  - economic opportunity loan programs, 13114
  - examination function of small business investment company program, GAO review, 16675
  - financial assistance programs, review, 16439
  - local development company loans, 8678
  - economic growth at community level, 1599
  - meeting with officials, hearings, 9150
  - Minneapolis, Minn., office, salvage of fire and water damaged records, 14165
  - organization and operation—
    - hearings, 2060
    - report, 4508
  - organization, changes—
    - law, 483
    - report, 4588
  - participation loans with SBA, guide for private lending institutions, handbook, 5490
- Small Business Administration—Continued
- press releases, 3760
  - programs for progress, 7111
  - publications—
    - for sale booklets, 5491
    - free management assistance publications, list, 5492, 18202
    - management aids for small manufacturers, 2854
  - role, present and future, hearings, 2060
  - self-improvement-community style, 502
  - loan program, 11789
  - small business investment program, 1966—
    - hearings, 2062
    - report, 4509
  - starting and managing series, 5497, 8679, 15733
- Small Business Crime Protection Insurance Corporation, establish, hearings, 17644
- Small Business, Select Committee on, House:
- committee prints, 4561-62, 10679
  - final report for 89th Congress, 6002
  - hearings, 2060-62, 10678, 12317
  - investigations and studies—
    - authorization, report, 4518
    - expenses, report, 7679
  - reports, 668, 4508-14, 6002
- Small Business, Select Committee on, Senate:
- annual report, 10795
  - committee prints, 4660, 9330, 16437, 16439
  - hearings, 12428, 16436, 16438, 16440, 17677-679
  - investigations and studies, small and independent business, problems, authorization, report, 4610
  - publications, list, 4660
  - reports, 10794-795, 16365
- Small craft, gale and whole gale warning facilities charts, 14723-724
- Small Magellanic Cloud, *see* Magellanic Clouds.
- Smallpox, health information series, 18165
- Smedes, Harry W., geology and igneous petrology of northern Elkhorn Mountains, Jefferson and Broadwater Counties, Mont., 2367
- Smell, olfactory sense and its simulation by modeling, USSR studies, 1326
- Smelting:
- electric, of complex lead-zinc sinter, 14353
  - electrorefining—
    - titanium-nitrogen alloys, 2582
    - yttrium, 15482
  - molten-salt electrorefining vanadium scrap, 17916
- Smith, Alan A., technology and your new products, 13118
- Smith, Albert C., new and noteworthy flowering plants from Fiji, 12997
- Smith, Bryce A., relief, 7615
- Smith, Charles C., Jr., flight characteristics of model of aspect-ratio-6 conical-parawing utility vehicle, 5229
- Smith, Charles R., pulp, paper, and board, quarterly industry report, 3788
- Smith, Clarence T., Army research and development, newsmagazine, 3043
- Smith, Dwight R., effects of cattle grazing on ponderosa pine-bunchgrass range in Colorado, 14764
- Smith, Floyd F., controlling insects on flowers, 17307
- Smith, G. Louis, equations for rapid machine computation of equilibrium composition of air, etc., 16973
- Smith, Gerald L., theory and methods of statistical inference, 8507
- Smith, Guy F., international education act of 1966, summary, 8191
- Smith, H. Clay:
- epicormic branching on 8 species of Appalachian hardwoods, 8078
  - visible dormant buds as related to tree diameter and log position, 17802

- Smith, H.H., high temperature vacuum fatigue testing of type 316 stainless steel and Inconel X, etc., 11676
- Smith, Harvey H., area handbook for South Vietnam, 13297
- Smith, Irwin D., nitrogen tetroxide disposal unit combustion products 11515
- Smith, Jack, Mines Bureau coal-fired gas turbine research project, 9772
- Smith, John W., shale oil specific gravity from Colorado's Green River formation, 2587
- Smith, Maureen R.:  
basic data on economy of Ethiopia, 7580  
establishing business in Ethiopia, 13465
- Smith, P. M., outlet works and stilling basin, Howard Hanson Dam, Green River, Wash., hydraulic model investigation, 2201
- Smith, R. H., black turpentine beetle, 16646
- Smith, Richard B., nomination, hearing, 9307
- Smith, Richard H., forcing attacks of western pin beetles to test resistance of pines, 8083
- Smith, Richard M., analysis and design of space vehicle flight control systems, 12875
- Smith, Robert G., relief, 848
- Smith, Robert V., soil survey of Montgomery County, Pa., 11807
- Smith, Ronald C., heat-transfer measurements on rotor blades of rotor entry vehicle model, 12965
- Smith, Sheldon M., coronal photographs, isophotes, and flash spectrum from solar eclipse, 11551
- Smith, T. Michael, relief, 13578
- Smith, W. S., temperature, pressure, etc., upper stratosphere and mesosphere, 17012
- Smith, Wesley G., movement of labor between farm and nonfarm sectors and multiple-jobholding by farm operators in Tennessee Valley, 17262
- Smith, Willard J., nomination, hearings, 6094
- Smith, Winchell, acoustic velocity meter, report on system development and testing, 14167
- Smith River and Valley, basin, magnitude and frequency of floods, 14177
- Smithrick, John J., energy required to produce electron-hole pair in silicon by tritons, 1501
- Smithsonian Astrophysical Observatory, research opportunities, 1601
- Smithsonian contributions to anthropology, 1531, 6972-74, 9954, 13001, 144547
- Smithsonian contributions to astrophysics, 2859, 8683, 18204
- Smithsonian identification manual, 2752
- Smithsonian Institution:  
annual report, 1966—  
departmental edition, 7114  
document edition, 5980  
appropriations, 1968—  
hearings, 7734, 9302  
law, 12170  
reports, 10560, 10766, 12252  
citizen regent of board of regents, reapportionment of Jerome C. Hunsaker—  
law, 12169  
reports, 10605, 10741  
collections, portland crabs from Pacific and Indian Oceans, 8540  
Dürer and his time, exhibition from collection of Print Room, State Museum, Berlin catalogue and notes, 10079  
general information, 15735  
History and Technology Museum, growth of United States, 1640-1851, exhibition, 18203  
Joseph H. Hirschhorn Museum and Sculpture Garden, establish—  
law, 492  
reports, 883, 896, 4506
- Smithsonian Institution—Continued  
National Museum act of 1966—  
law, 392  
report, 681  
National Zoological Park, administration, reorganization—  
hearing, 736  
report, 2021  
publications, price list, 15671  
rates of compensation for certain executive positions, establish, law, 447  
research opportunities, 2860  
Smithsonian torch (periodical), 8684  
Smithsonian journal of history, 3879  
Smithsonian miscellaneous collection, 5500, 11790-791  
Smithsonian torch (periodical), 8684  
Smoke:  
evaluation of smoke-wire technique for measuring velocities in air, 10293  
hood, to protect passenger, aviation, medical report, 14812  
Ringelmann chart for grading density, 11354  
smoke operations, Army field manual, 10260  
Smoke generators, chemical smoke generator units, Army field manual, 10260  
Smoked fish, see Fish and fisheries.  
Smoking:  
and health—  
bibliography, 15705  
directory of on-going research, 11743  
and illness, effects of tobacco, etc., 13094, 18186  
cigarette smoking—  
and health characteristics, statistics, 10067  
chronic bronchitis and emphysema, 5424  
health consequences, Public Health Service review, 17144  
library services of National Clearinghouse for Smoking and Health, 11740  
light on subject of smoking, 4366  
National Interagency Conference on Smoking and Health, highlights, 7077  
Snake River and Valley:  
fish passage report, 13974  
Lower Monumental Dam, spillway and stilling basin, hydraulic model investigation, 10949  
upper dryfarming area, moisture conservation for wheat production, 4088, 11923  
SNAP (systems for nuclear auxiliary power), see Atomic auxiliary power generators.  
Snapper, western Atlantic, field guide, 8019  
Snee, Joseph M., international law studies, 11683  
Snell Lock, St. Lawrence Seaway, investigation of concrete, 13987  
Snipes:  
hunting, possession, transportation, importation, 1967-68, Federal regulations, 16623  
Alaska, 14061  
Snoeberger, D., vent-gas treatment plant, 1809  
Snow:  
accumulation on open mesh metal panels, prevention, 8879  
alpine, Montana, mechanical properties, 13292  
alpine snow covers, densification, 15933  
bibliography, with abstracts, 14791  
conditions, weather and crop bulletin (periodical), 4060  
construction, slanting role, 15930  
creep of snow and ice, research report, 7378  
damage to coniferous seedlings and saplings, 1091  
depth probability calculations, Great Lakes, charts and tables, 12776  
Federal-State-private cooperative surveys—  
Arizona, 4044

# INDEX 1967

## Snow—Continued

- Federal-State-private cooperative surveys—Continued
- Colorado—
  - early season report, 5519
  - special snow report, 15750
- Colorado and New Mexico, 4045
- Idaho, 4046
- Montana, 4047, 18217
- Nevada, 4048, 17205
- Oregon, 4049
- Utah, 4050
- Washington State, 4051
- Western United States, including Columbia River drainage in Canada, 4052
- Greenland firn, artificial radioactivity reference horizons, 4197
- hardness, Rammsonde equation, reevaluation, 1755
- heat conduction in moist porous media, 10256
- sintering process, 10257
- snow cover and calculation of snow floods in forest and steppe regions, USSR study, 1203
- structures, effect of explosions, 99
- surface, mass transfer by sublimation, investigation, 4198
- surveying method, basis, USSR study, 1183
- surveys, Alaska, 3317
- transport of intercepted snow from trees during snow storms, 8114
- see also* Precipitation.
- Snowstorms, transport of intercepted snow from trees, 8114
- Snyder, Irene, relief, 545
- Snyder, Thomas E., control of nonsubterranean termites, 7270, 8826
- So . . . you want to be (series), 15205–207
- Soap:
  - cation effect on solubilization by oil-soluble sulfonates and applicability of mass law, 17095
  - floating white, Federal standard, cancellation, 11062
  - grit, hand, paste, and powder, Federal standard, cancellation, 11064
  - toilet, liquid and paste, Federal standard, cancellation, 9498
- Socarras, Oton, relief, 9192, 12233, 13486
- Social and Rehabilitation Service, nursing home care provided to welfare recipients, guidance to States in establishing rates, GAO report, 17811
- Social interaction, *see* Behavior.
- Social life and customs, *see* Manners and customs.
- Social progress program, Inter-American, *see* Latin America.
- Social sciences:
  - research, international, Federal support, hearings, 10842
  - use of social research in Federal domestic programs—
    - current issues in administration of Federal research, 9161
    - federally financed research, adequacy, etc., 9161
    - federally financed research, expenditures, etc., 9161
    - private social scientists, relation to Federal programs on national problems, 9161
  - Vientiane Plain, socio-economic study, 6578
- Social scientists, use, relation to Federal programs on national problems, 9161
- Social security:
  - account numbers, 1966, issuances, 18208
  - act, amend—
    - hearings, 7763, 10684
    - laws, 13523, 16142
    - reports, 697, 16264
  - amendments of 1965, mental health benefits, 5447

## Social security—Continued

- amendments of 1967—
  - analysis and explanation, 6048, 16346
  - hearings, 15154, 16409
  - reports, 14953, 14964
  - summary, 15053
- benefits—
  - and poverty, status of low-income beneficiaries or aged persons, 7132
  - disability, rights and responsibilities of recipients, 11800
  - income limitations under VA pension programs, hearings on miscellaneous bills, 17613
  - outside United States, 14646
  - overpayments, GAO review, 8142
  - special, awarded to persons aged 72 years and older during last quarter of 1966, brief explanation, 10086
  - students 18–22, cash, 5512
  - your duties as representative payee, 15744, 18211
- bulletin, 3880
- statistical supplement, 13121
- career for you in social security, 14645
- clergymen, explanation, 11801
- coverage for household employees, 11795
- coverage for household workers, 7122
- disability applicant statistics, disabled workers, etc., 8691
- District of Columbia participation in medical assistance program—
  - hearings, 10645
  - report, 13645
- economic effects of seasonality in OASDHI tax payments, 17203
- establishment reporting plan, statement for use of employer, 1604
- farmers, self-employed—
  - are you getting your social security credit, 2863, 18210
  - reporting income, special information, 1605
- Federal employment, transfer of retirement credits, to close gaps in protection, amend U.S. Code, hearings, 10672
- financing your benefits, 7123
- general information, 14647
- handbook, 1606
- health insurance—
  - enrollment, July 1, 1966, number of persons by State and county, 10083
  - extended care facilities, directory, 15738
  - home health agencies, directory, 11793
  - hospitals, directory, 11794
- help or information, list of social security district offices, 5507
- household worker statistics, 2871
- how it helps us, hl, I'm Mr. Money Wise, 14649
- income maintenance, retirement, survivors, and disability insurance, health insurance for people 65 and over, hospital insurance, medical insurance, information, 10085
- increase benefits, message from the President, 12198
- increases, reduction of retirement benefits—
  - hearings, 10798
  - report, 13144
- information for crew leaders and farmers, 15741
- information for young families, 15742
- Joe Wheeler finds a job and learns about social security, 14647
- answer sheet, 14648
- law, changes, 5506
- nonprofit organizations and their employees, how it works, 5505
- outline for studying, 5508
- programs throughout world, 8692
- publications, price list, 17135
- railroad retirement beneficiaries who receive social security payments, message about medicare, 15739



**Social security—Continued**

- reform of French social security system, 17199
- research and statistics notes, 1607, 2866-67, 5514-16, 7129-32, 8689-90, 10086, 11798-799, 17198-202, 18208
- index, 7121
- retirement or survivor benefits, rights and responsibilities of recipients, 7133
- rulings on Federal old-age, survivors, disability, and health insurance, 2872, 3881
- school certification of full-time attendance for social security purposes, 15743
- self-employed people, reporting their income, special information, 2661
- self-employment taxes, guide for farmers, 1967 edition, 1142
- special information for people who receive cash tips, 17204
- special payments—
  - people 72 or over, brief explanation, 2873
  - rights and responsibilities of those who receive, 15740
- survey of the aged population of U.S., 13120
- Sweden's system, 1608
- tax guide for—
  - employers in Virgin Islands, Guam, and American Samoa, 2402
  - household employers, 2401
- teaching aids, free, 7124
- widows with children, survey, 2869
- your social security, 5506
- see also Disability Insurance—Old-age, survivors, and disability insurance.
- Social Security Administration:**
  - actuarial notes, 1603, 5501, 7115-17, 11792, 14644, 15736
  - actuarial study series, 7118, 8686, 10082
  - data processing (lectures), 15737
  - social security benefit overpayments, GAO review, 8142
  - SSI series, 11801, 14647-649, 15741-742, 17204, 18209-210
  - TIB series, 15743
- Social service, see Social work and problems.**
- Social surveys:**
  - Atlantida, case study in household sample surveys—
    - content and design of household surveys, Spanish edition, 5898
  - distribution and receipt of materials, 1885
  - editing and coding, 4360
  - field operations, instructional manuals, 182
  - population data controls, Spanish edition, 5899
  - survey objectives and description of country, Spanish edition, 7496
  - tsbulation process, 7497
  - workbook for case study, 10387
- Social usage abroad, guide for American officials and their families, 8712**
- Social work and problems:**
  - careers in social work, examination announcement, 5928
  - cities in crisis, the challenge of change, 10133
  - community planning for health, education, and welfare, bibliography, 16540
  - community services in low-income neighborhoods, field guide to concerted services, report of joint task force, 17840
  - development of border area, joint commission to study, agreement with, Mexico, 7191
  - effects of marketing (remarks), 242, 1960
  - health, education, and welfare indicators (periodical), 3394
  - low and moderate income groups, new welfare programs, 8193

**Social work and problems—Continued**

- major social problems, adequacy and usefulness of federally financed research, 9161
- neighborhood service centers, services offered, problems, etc., 5595
- optimum social welfare through planning, participation, and manpower, 8194
- research relating to children, studies in progress, 8967
- scientific research, factors contributing to increased effectiveness, USSR study, 1206
- social development, role of cooperatives, ILO recommendation, text, 13554
- social services—
  - Federal assistance program, 12447
  - statistical reports, 6234, 7942, 13998
- use of social research in Federal domestic programs, private social scientists, relation to Federal programs on national problems, 9161
- voluntary welfare agencies, fund-raising within Federal service, manual, 3539, 4399
- welfare councils, role in community health planning, 2832
- welfare programs and services, facts, 7234
- welfare, reference facts, 16706
- Social workers:**
  - examination announcements, 1907, 5928
  - intake and case recording, fact-finding report, Santa Clara County Welfare Department, San Jose, Calif., 10973
  - public welfare personnel, 1965 statistics, 12483
  - Veterans Administration hospitals and clinics, nationwide, career information, 14711
- Socialism:**
  - hydrometeorological and meteorological services of socialist countries of Europe, conference of directors, USSR study, 1179
  - political organization of socialist society, USSR studies, 14269
  - scientific research coordination in agriculture and forestry in Socialist countries, 7th conference, Hungary, 14242
  - setting up Socialist brigades for technical progress, new regulations announced, Bulgaria, 12668
  - Socialist Turkey, treatise, 5027
  - Socialist Federal Republic of Yugoslavia, see Yugoslavia.
- Societies, see Scientific societies.**
- Society, cybernation and social change, seminar, 6596**
- Socioeconomics, socioeconomic status, census of population, 14835**
- Sociology:**
  - Communist China, translations, 3951
  - development digest (periodical), 3202
  - Eastern Europe, translations, 3882
  - future international meetings, world list, 4074
  - philosophical development of theories, USSR study, 5024
  - quantitative methods, USSR study, 12678
  - rural poor, aspirations and expectations, guide to research, 17710
  - sociological problems of development of science and technology, USSR review of new literature, 16787
- Sockets, plug-in connector, accepts coaxial cable end, 5144**
- Soda, Rajka, relief, 276, 861**
- Soderstrom, Thomas R., taxonomic study of subgenus Podosemum and section Epicampes of Muhlenbergia (Gramineae), 17047**
- Sodium:**
  - excretion and renal hemodynamics during lower body negative, 14770

# INDEX 1967

## Sodium—Continued

human serum, estimation of change during simulated altitude and aerospace flights, 7341  
liquid, performance of face contact seal by incorporation of spiral-groove geometry, 11505  
liquid solutions, excess solute precipitation kinetics, 5359  
nonwetting, condensing mercury flow in horizontal cooled tubes, heat-transfer, experimental investigation, 11541  
nuclear reactors, sodium-cooled, USSR study, 6527  
operation of hydrodynamic journal bearings in sodium to 800° F, etc., 9901  
steady-state performance of NaK-cooled condenser, 12937  
thermodynamic properties of liquid metal solutions in sodium-mercury system, 9910  
vapors, expansion and flow characteristics, 2717  
Sodium acetate, effect on TmPAH depressed by exposure to hydrazine, 4177  
Sodium arsenite, possible eradicator of fusiform rust infections, 12581  
Sodium chloride, *see* Salt.  
Sodium-cooled fast reactors, *see* Reactors (atomic).  
Sodium cyanide, fused, use as electrolyte for deposition of iridium, 16865  
Sodium nitrate, incandescence of hot gases to methane and coal dust, reduction by sodium chloride and sodium nitrate, 11383  
Sodium tetraphenylborate, microlocalization of potassium in myofibrils, USSR studies, 14217  
Soenda Strait, sailing direction, change, 5330  
Soft drinks:  
bottled and canned, census of manufacturers, 1963, industry report supplement, 8933  
industry, fair labor standards act, application, 17290  
Softwoods:  
lumber, kiln-dried, dimensional changes after surfacing and during storage, 2300  
plywood, construction and industrial, standard of trade, 11586  
surfaces, ultraviolet irradiated and weathered and clear coatings, microscopic observations, 14123  
*see also* names of articles manufactured from softwoods.  
Sohl, Norman F., upper Cretaceous gastropods from Pierre shale at Red Bird, Wyo., 8161  
Soil conservation:  
abstracts of material published, 8806  
around the world, 14653  
county committees, extend benefits to employees, hearing, 10870  
cropland, 1964-65, conversion program, description and appraisal, 9388  
districts—  
highlights, 1966, digest of report, 8694  
organization and services, 1710  
status of organization by States, 17207  
engineering practice standards, SCS national engineering handbook, 13122  
flood routing, SCS national engineering handbook, 10087  
loans to foster conservation, questions and answers, 4131  
our American land, use the land, save the soil, 15839  
publications, announcement and order form, 14614  
research in Northeastern States, 38  
soil conservation (periodical), 3883  
soil conservation and domestic allotment act, amend with respect to assignment of payments, law, 455  
statutes, compilation, 7262

## Soil Conservation Service:

activities, 17327  
appropriations, 1968, hearings, 10629, 12397  
career opportunities—  
general, 5655  
students, 1705  
conservation aid, CA series, 8693  
conservation information, CI series, 14650  
national engineering handbook, 14652  
policies and practices for rebuilding used motor vehicle tires, GAO review, 14162  
report 1966, digest, 8694  
SCS national engineering handbook, 10087, 13122  
what it is, what it does, 8693  
Soil engineering, *see* Soil mechanics.  
Soil erosion:  
Coffee Creek flood of Dec. 1964, erosion and deposition, 17823  
control—  
highway embankment protection, use of riprap, 14640  
structures for airfields and heliports, emergency construction, 110  
Costa Rica, erosion control problems caused by ash eruptions of Irazú Volcano, 16686  
exposure and logging effect on, 9537  
waterline erosion control essential to streambank rehabilitation, 14099  
Soil mechanics, engineering conservation practice standards, SCS national engineering handbook, 13122  
Soil moisture, *see* Soils.  
Soils:  
alluvial, sugarcane area of Louisiana, deep-tillage investigations, 1672  
alpine, Wyoming, pot tests of productivity and nutritive status, 2317  
applicator for precision placement of chemicals in soil, 1673  
chemical sealing, feasibility study, 17849  
citizen's stake in management (remarks), 13219  
classifying and mapping, aerial-photo interpretation, 4096  
conductivity in USSR, results of measurements, 14229  
developed, protected, and geared for sustained use (remarks), 51  
dynamic characteristics, measurement with penetrometers, 14396  
evaporation of water, effect of sample size and environmental conditions, 10  
forest floors and soils under true fir-hemlock stands in Cascade Range, characteristics, 11139  
forested loess soils after repeated prescribed burns, properties, 8091  
freezing point depression and heat capacity, thermodynamic relationships, 8878  
Harrison County, Iowa, 1722  
hydrologic and physical properties as analyzed, 1948-60, summary, 8182  
interface between ice and silicate surfaces, 11982  
know the soil you build on, 11927  
laboratory stress-deformation characteristics of soils under static loading, 2596  
landscape evolution and soil formation in southwestern Iowa, 14763  
micro-organisms, simple, time-saving techniques for studies, 16656  
Mississippi River Delta, monitoring agricultural pesticide residues, preliminary report of studies, 4086  
moisture depletion by gambel oak, 4831  
non-wettable, formation involves heat transfer mechanism, 11124  
pesticides, equipment for applying, 14735  
roots and rhizomes distribution in different soil types, Pine Barrens, N.J., 6408  
science and saving water and soil, 15842

**Soils—Continued**

site index of Delaware-Maryland sweet-gum stands in relation to soil characteristics, 4832  
 slippage increased by brush conversion, 11120  
 soft, performance of pneumatic tires, dimensional analysis, 16527  
 soil bank programs, statutes, compilation, 7262  
 soil moisture tension, responses of 1-year-old cottonwood, 14122  
 soil survey investigations reports, 13124-126, 14659-661, 17209, 18216  
 soil survey laboratory data and descriptions—  
   Colorado, 14659  
   Georgia, North Carolina, South Carolina, 18216  
   Kentucky, 13125  
   Mississippi, 13124  
   Oklahoma, 14660  
   Puerto Rico and Virgin Islands, 14661  
   Tennessee, 13126  
   Wisconsin, 17209  
 soil survey reports—  
   Adams County, Pa., 13123  
   Adams County, Wash., 18212  
   Arenac County, Mich., 14654  
   Beaver Creek area, Ariz., 11803  
   Bremer County, Iowa, 18213  
   Caldwell County, Ky., 8695  
   Chicot County, Ark., 11813  
   Codrington County, S. Dak., 7134  
   Columbia County, Pa., 11804  
   Comanche County, Okla., 15746  
   Delta-Montrose area, Colo., 15747  
   Elbert County, Colo., eastern part, 1611  
   Ellis County, Okla., 8703  
   Fisher County, Tex., 2877  
   Franklin County, Mass., 8696  
   Garfield County, Okla., 18214  
   Gray County, Tex., 8697  
   Greer County, Okla., 10088  
   Grenada County, Miss., 11805  
   Gwinnett County, Ga., 15748  
   Hall County, Tex., 14655  
   Henderson County, Ky., 8698  
   Houston and Peach Counties, Ga., 14656  
   Iowa County, Iowa, 14657  
   Jefferson County, Ky., 8704  
   Judith basin area, Mont., 7136  
   Kinney County, Tex., 11806  
   Lafayette County, Wis., 1610  
   Las Vegas and Eldorado Valleys area, Nev., 14662  
   Love County, Okla., 8699  
   Madison County, Ind., 8700  
   Menard County, Tex., 8701  
   Metcalf County, Ky., 7135  
   Monroe County, Miss., 5518  
   Montgomery County, Pa., 11807  
   Parke County, Ind., 13127  
   Prince Georges County, Md., 11808  
   Prowers County, Colo., 7137  
   Queen Annes County, Md., 2874  
   Randolph County, Ala., 18215  
   Red Willow County, Nehr., 11809  
   Rogers County, Okla., 1609  
   Roosevelt County, N. Mex., 11810  
   St. Francis County, Ark., 2875  
   Seminole County, Fla., 2876  
   Tate County, Miss., 11811  
   Tehama County, Calif., 14658  
   Tippah County, Miss., 1612  
   Tolland County, Conn., 7138  
   Treasure County, Mont., 10089  
   Tri-County area, Cass, Ransom, and Richland Counties, N. Dak., 8702  
   Tucker County and part of northern Randolph County, W. Va., 11812  
   Warren County, Tenn., 17208  
   Wood County, Ohio, 5517  
   Zuni Mountain area, N. Mex., 15749

**Soils—Continued**

soil surveys—  
   community planning and resource development, report, 2083  
   erosion, conservation, publications, price list, 7052  
   list, 11802  
   stress and wave patterns, dynamic loads, 10255  
   surface conditions following skyline logging, 14104  
   surface soil recovers quickly after burn, 8097  
   thermal conductivity probes, 4201  
   see also headings beginning Soil.  
 Soister, Paul E., geology of Puddle Springs quadrangle, Freemont County, Wyo., 12602  
 Solano, Julio A., relief, 13734, 16192, 17506  
 Solar:  
   NOTE.—For other subjects beginning Solar, see Sun.  
 Solar array regulators of Explorer satellites, xii, xiv, xviii, xxi, xxvi, xxviii and Ariel 1, 12927  
 Solar batteries:  
   control circuit ensures solar cell operation at maximum power, 9832  
   drift fields, simplified method introduces into cells, 9857  
   silicon cell wafer, introducing selected impurities, process for controlling, 16949  
   solar-cell space power systems using spectral dispersion, 15579, 16992  
 Solar cells, see Solar batteries.  
 Solar concentrator, electroformed nickel, geometric efficiency, 14469  
 Solar energy:  
   direct energy conversion systems for operation in 1.0 and 0.1 astronomical unit range, 6856  
   solar-Brayton system turboalternator, parasitic-load speed control, analog computer study, 5258  
   solidification in thermal-energy storage systems with axisymmetric heat-transfer solutions, analysis, 5246  
   two-spool solar-Brayton system turboalternator, valve-speed control, 5257  
 Solar engineering, research, USSR study, 11264  
 Solar radiation, planetary albedo effect on solar orientation of spacecraft, 16985  
 Solar reflectors, prism, dispersion, 15579  
 Solar spectrum, see Spectra.  
 Solar topography, see Topography.  
 Solar winds and interplanetary magnetic fields, USSR study, 6749  
 Solberg, Erling D.:  
   comprehensive plans for improving rural counties, 7265  
   suggestions for planning and zoning in Appalachia, 7884  
   why and how of rural zoning, 15838  
 Solder and soldering:  
   brazo alloy holds bonding strength over wide temperature range, 5207  
   brazing and brazing alloys, bibliography, 2618, 8439  
   brazing tungsten, for high temperature nuclear service in hydrogen, 11506  
   electrical connections, handbook, 15517  
   high-strength braze joints between copper and steel, 14420  
   silver-palladium braze alloy recovered from masking materials, 6793  
   tin-lead solders and solder joints, tests, 11388  
   ultrasonics permits brazing complex stainless steel assembly without flux, 11392  
 Soldier fly larvae in America north of Mexico, 6957  
 Soldiera:  
   American Army officers' call, theirs to reason why, 15940

# INDEX 1967

- Soldiers**—Continued  
civil relief act of 1940 and amendments, compilation, 1994  
civil relief act, text, 755  
professionalism and the soldier, pamphlet, 4212
- Soldiers' deposits**, *see* Deposits (soldiers, etc.).
- Soldiers' Home, District of Columbia**:  
appropriations, 1967, law, 491  
appropriations, 1968—  
hearings, 9144, 13841  
reports, 10612, 15082, 16287
- Solenoids**:  
residual magnetism holds solenoid armature in desired position, 8464  
superposed semi-infinite, calculating solenoid magnetic fields, 1469  
valve—  
design has one moving part, 14425  
monitoring circuit accurately measures movement of, 2676  
variable-pulse switching circuit controls actuations, 8456
- Solicitor, Interior Dept.**, appropriations, 1968, hearings, 7734
- Solid propellants**, *see* Propellants.
- Solid solutions**, *see* Solutions.
- Solid state image intensifiers**, 5343
- Solid state phase detector** replaces bulky transformer circuit, 14442
- Solid-state recoverable fuse** functions as circuit breaker, 6845
- Solid-state time-to-pulse-height converter** developed, 8393
- Solid system, numeric compression**, alpha-numeric compression, 14519
- Solid waste program** facts, 13095
- Solidification**:  
radioactive wastes, symposium, proceedings, 5767  
thermal-energy storage systems with axis-symmetric heat-transfer solutions, analysis, 5246  
transient, of warm liquid flowing over chilled flat plate, 12935
- Solids**:  
carbon, adsorption of carbon dioxide, 5351  
contact with liquid, classification definitions, 18124  
crack propagation theories, 17939  
gas-motivated solids dispersion devices, 6687  
gas-solids suspensions, power required to circulate, 15483  
interaction of solids colliding at high speeds, USSR study, 16744  
solid-state physics, new developments, Hungary, 16751
- Sollwada, Sophia**, relief, 529, 775
- Solomon, Anthony M.**, address, Nov. 2, 1966, 2936
- Solomon, Dale S.**, stump sprouting of 4 northern hardwoods, 8111
- Solomon, J. D.**, clearwing borer in red oaks, 2326
- Solomon Islands, British, mineral industry**, minerals yearbook chapter, 9759
- Solubility**:  
metals in liquid zinc, data compiled, 12844  
all-soluble sulfonates, effect of cation, and applicability of mass law, 17095  
studies of ultra pure transition elements in ultra pure alkali metals, 1424
- Solutes, renal excretion in rabbits**, effect of —7 G<sub>x</sub> acceleration, 14776
- Solutions**:  
axisymmetric heat-transfer, in thermal-energy storage systems, solidification, analysis, 5246  
dilute, form and stability of aluminum hydroxide complexes, 15313  
inorganic, foam fractionation, 12642  
parenteral—  
preparations, Federal standard, 2267
- Solutions**—Continued  
parenteral—continued  
safety of large volume, national symposium proceedings, 15275  
solid carbide cathodes of uranium and zirconium, evaporation rates, USSR studies, 6522  
xenon fluoride, effective as fluorinating agents, 12836
- Solvents**:  
determination of gold in geologic materials by solvent extraction and atomic absorption, 16688  
volatile, continuous flow, in-line fractionation and exchange in automated chemistry, 75
- Somali Republic**:  
foreign trade regulations, 12137  
labor conditions, 1387  
technical cooperation, agreements, 7181, 13147
- Soman conditional reflex activities of dogs** poisoned with soman and then treated with nemkol-5, Bulgarian study, 6563
- Somatic cytogenesis**, *see* Cytogenesis.
- Somers, Herman M.**, program for research in health economics, 10050
- Somerset County, Maine**, geology and petrology of Greeville quadrangle, 16684
- Sommer, Simon C.**, structure of atmosphere from on-board measurements of pressure, etc., 9904
- Sonar targets**, ambiguity function independent of assumptions about bandwidth and carrier frequency, 8598
- Sonata for 2 clarinets**, student composers take over, 7911
- Sondermayer, Roman V.**:  
mineral industry of—  
Bulgaria, 6645  
Czechoslovakia, 2551  
East Germany, 8347  
Hungary, 5111  
Rumania, 6665  
Yugoslavia, 16959
- Sondreal, Everett A.**, bench-scale production of carbon disulfide from lignite char and sulfur, 5127
- Song Hyung Ho.**, relief, 13617, 13784, 14900
- Song Kyung Ho.**, *see* Song Hyung Ho.
- Song Sin Talk**, relief, 13617, 13784, 14900
- Sonce, Alice**, vocational education, annotated bibliography, 9414
- Songs, Muskogean charm songs among Oklahoma Cherokees**, 6973
- Sonic boom**:  
Chicago area, measurements during bomber training operations, 1481  
integrals, numerical evaluation, application of Richardson's extrapolation, 6859  
Mach number and geometry effects, 18041  
preparation, effect of inversion waves, 9427  
references, 4753
- Sonic equipment**, *see* Sound.
- Sonoscope**, field tests of concrete, 10-year summary of results, 7934
- Soon Kim Kin**, *see* Kim Kin Soon.
- Sorenson, Richard C.**, manpower rotation policy models, 7404
- Sorenson, Roy T.**, flotation procedures for fine-grained hematitic ores of Marquette Range, Mich., 14335
- Sorex**, *see* Shrews.
- Sorghum**:  
grain—  
actions taken to strengthen under USDA programs (address), 24  
evaluation of malathion, synergized pyrethrum, and diatomaceous earth as protectants against insects, 11933  
growing, 4117
- Sorption**, *see* Electrosorption.

Sorrells, Russell B., III, measurement by wake momentum surveys of turbulent boundary layer skin friction on 5 swept wings, 2725

Sorting devices, nondestructive test method accurately sorts mixed bolts, 2679

Sotolongo, Julio C. Münz y, *see* Münz y Sotolongo, Julio C.

Souk You I, *see* You I Souk.

Sound:

- absorption in air versus humidity and temperature, 6707
- acoustic oscillations in simulated rocket combustion chambers, mechanical absorption, 5264
- acoustical measurements in shipbuilding, USSR book excerpts, 15418
- acoustics of ocean, USSR study, 6587
- calibrating ultrasonic test equipment for checking thin metal strip stock, 12832
- deep ocean acoustic sources, method for determining location, 8588
- electronic dummy for acoustical testing, 16946
- far-field acoustic environmental predictions for launch of Saturn, etc., 16981
- intensity increments, table, 136
- interaction between sound fields and structural vibrations, 9835
- monostatic acoustic scattering from ocean volume, 13034
- monostatic reflection of acoustic waves by elastic spheres techniques for numerically evaluation formulas, 14594
- pressure effect on cryogenic fluid, 12940
- principles, application to outdoor warning systems, 5915
- propagation, from airport ground operations, 11404
- propagation velocity, measurement in Indian Ocean water, USSR study, 15353
- refraction by jet flow and jet temperature, 14389
- scattering in ocean, USSR articles, 9627
- sonomicrometer, simple portable, 1741
- speed measurement by iterative reflection-interferometry, 9983
- ultrasonics—
  - attenuation for free electrons in presence of magnetic field, theoretical investigation, 2705
  - attenuation in superconduction niobium, 5273
  - effects on electrodeposition of copper alloys from cyanide electrolytes, 9787
  - energy effects on fluid flow in porous media, 14336
  - permits brazing complex stainless steel assembly without flux, 11392
  - propagation parameter measurements systematic errors, iterative reflection-interferometry method evaluated, 9983
  - pulse measurements in anisotropic lake ice, 1754
  - quality inspection of bonded honeycomb assemblies is automated, 2664
  - speaker for studies of acoustic sensitivity of moths, 4083
  - spectrometer, sensitive recording NMR, 2744
  - testing in practice of machine and boiler construction, etc., results, 13339
  - transmission properties of copper braze bonds, correlation with heat transfer properties, 8389
  - TV images improved by use of Lamb-wave orientation technique, 15494
  - ultrasound, biological effects, USSR study, 11268
  - wrench produces leaktight connections, 17965
  - volume, scattering in ocean, and measurement of acoustic characteristics of scattering layers, USSR study, 1166

Sound—Continued

- weather effect on transmission from explosive shots, 9773
- see also* Noise.

Sound powered telephone talker's manual, 4422

Sound projectors, deep ocean acoustic sources, method for determining, 8588

Sound recordings:

- archive of recorded poetry and literature in Library of Congress, checklist, 5089
- housing and community development, bibliography, 11204
- recording and time expansion technique for high-speed, single-shot transient video signal, 11468

Sound, The, *see* Oresund.

Sounding rockets, *see* Rockets.

Soundproofing, houses, insulating from aircraft noise, study, 14188

Souris River and Valley, geohydrology in vicinity of Minot, N. Dak., 14184

South (U.S.):

- and border States, Negro pupils, enrollment, 4711
- and border States, public school districts—equal educational opportunities programs, status of compliance, 10943
- status of compliance under civil rights act, 17725
- basic data on metabolic patterns in 7- to 10-year-old girls, selected Southern States, 13227
- education, problems (address), 2188
- employee earnings and hours in 8 metropolitan areas, 5071
- forest tree improvement research, 9542
- fresh fruit and vegetable unloads in southern cities, by commodities, States, etc., 7833

Midsouth—

- engineering and economic aspects of cotton gin operations, 12452
- growing loblolly and shortleaf pine, 8827

nonmetropolitan areas, employee earnings and hours, 15447

precipitation, effects of tropical cyclone rainfall, 15230

pulpwood production, 2339, 17809

school desegregation, 1966-67, study, 13436

South and the southerner, seminar on manpower policy and program, 5045

South Africa:

- atomic energy, cooperation for civil uses, agreement, 15801, 17240
- background notes, 1619
- Basutoland, Bechuanaland, and Swaziland, mineral industry, minerals yearbook chapter, 11357
- economy, basic data, 1944
- labor conditions—
  - Basutoland (Lesotho), 6617
  - Bechuanaland, 1366
  - South Africa, Republic of, 2514
  - South West Africa, 2515
  - Swaziland, 1389

Lesotho—

- background notes, 7140
- continued application of certain treaties concluded between United States and United Kingdom, agreement, 8742
- Investment guarantees, agreement, 11865
- mineral industry, minerals yearbook chapter, 9760
- plant quarantine import requirements, 4089, 14734

South West Africa—

- background notes, 8710
- capsule facts for Armed Forces, 13279
- mineral industry, minerals yearbook chapter, 8364

- South Africa—Continued  
 Swaziland—  
     background notes, 7141  
     capsule facts for Armed Forces, 8873  
 United States relations with, hearings,  
 print additional copies, report, 13655
- South America:  
 angelfish, genus *Pterophyllum*, 8539  
 characid fishes of subtribe *Nannostomina*,  
 8537  
 east coast—  
     lights and fog signals, lists, 5331, 9972,  
     14578  
     tide tables, 12119  
 fertilizer minerals, sources, 1110  
 health information for travel, 13080  
 Pacific Coast, surface water temperature  
 and density, 17466  
 sailing directions, change, 11633, 13021  
 savings and loan associations, progress  
 made (address), 7960  
 west coast—  
     lights and fog signals, list, changes,  
     1537, 7004, 11642, 18099  
     tide tables, high and low water predic-  
     tions, 7555
- South Asia, *see* Asia.  
 South Atlantic slope basins, *see* Atlantic  
 States.  
 South Atlantic States, *see* Atlantic States.  
 South Bend, Ind., area wage survey, 11327
- South Carolina:  
 census of agriculture, 1964, State and  
 county statistics, 10395  
 census of manufactures, 1963, area sta-  
 tistics, 4271  
 census of mineral industries, 1963, area  
 statistics, 5841  
 climatological data, 3096  
 congressional districts, 90th Congress,  
 1886  
 county business patterns, 4318, 12061  
 landings, fish and shellfish, 3884, 16614  
 mineral industry, minerals yearbook chap-  
 ter, 1404  
 minor elements in alluvial magnetite from  
 Inner Piedmont belt, 8172  
 postal map, 5396  
 precipitation data, hourly, 3401  
 Savannah River and vicinity, geology and  
 ground water for atomic energy plant,  
 16705  
 soil survey laboratory data and descrip-  
 tions, 15216  
 textile jobs for non-whites, etc., oppor-  
 tunities, 13994
- South-Central States, *see* Central States.  
 South China Sea:  
     western shores—  
         sailing directions, changes, 7003, 11639  
         Singapore Strait to Hong Kong, sailing  
         directions, 17074
- South Dakota:  
 area measurement report, 7458  
 census of agriculture, 1964, State and  
 county statistics, 10394  
 census of mineral industries, 1963, area  
 statistics, 4297  
 climatological data, 3096  
 county business patterns, 1869, 12062  
 electric rate book, 2252  
 mineral industry, minerals yearbook chap-  
 ter, 5120  
 natural resources, 8209  
 postal map, 5397  
 precipitation data, hourly, 3401  
 public lands, use of income for schools,  
 etc.—  
     law, 12177  
     reports, 10733, 12262  
 radioactivity, airborne, 1952-55, maps,  
 1803  
 sedimentary rocks, chemical composition,  
 14172
- South Pacific, *see* Pacific area.  
 South Pacific Ocean, *see* Pacific Islands.
- South Pole—Byrd supplement, seismological  
 bulletin, 3863  
 South Vietnam, *see* Vietnam.  
 South West Africa, *see* South Africa.  
 Southeast (U.S.):  
     America's fertile crescent (address), 4424  
     artesian water in Tertiary limestone, 6399  
     bauxite deposits of southeastern United  
     States (series), 2356-57, 9561  
     Federal power program, financial state-  
     ments, 1966, GAO examination, 15296  
     forest tree improvement research, 9542  
     ground water of Piedmont and Blue Ridge  
     provinces, 9566  
     how to see, general information, 1659  
     insect damage to corn at harvest time and  
     in farm storage, 14751  
     iron and steel scrap, sources, consumption,  
     etc., 12797  
     pulpwood, 1962-66, price trend, 15286  
     pulpwood prices, 2319  
     State and private forestry, more timber,  
     more jobs, 17798
- Southeast Asia, *see* Asia.  
 Southeastern Forest Experiment Station,  
 publications, list, 11109  
 Southeastern Power Administration:  
     appropriations, 1967, law, 403  
     appropriations, 1968—  
         hearings, 12287, 16393  
         report, 13678  
     quarterly report, 3798  
     southeastern Federal power program,  
     financial statements, 1966, GAO exami-  
     nation, 15296
- Southeastern States, *see* Southeast (U.S.).  
 Southern Forest Experiment Station, pub-  
 lications, list, 3808, 8057  
 Southern pine, *see* Pine.  
 Southern Rhodesia, *see* Rhodesia.  
 Southern States, *see* South (U.S.).  
 Southern Ute Indians, *see* Ute Indians.  
 Southern Utilization Research and Develop-  
 ment Division, publications and patents,  
 semiannual list 17, 8812
- Southport, N.C.:  
     harbor modification, engineer report—  
         departmental edition, 4740  
         document edition, 4475
- Southwell, C. R., corrosion of metals in tropi-  
 cal environments, copper and alloys,  
 9993
- Southwest (U.S.):  
     cost of transporting freight by class 1 and  
     2 motor common carriers, 11235  
     High Plains of Colorado, ground water de-  
     velopment, 4893  
     low-income families in Spanish-surname  
     population, characteristics, 9389  
     ponderosa pine—  
         planting sites, herbicides for preparing,  
         14110  
         veneer volume and grade recovery, 14115
- Southwest Idaho project, construct, etc.,  
 hearings, 2052, 16418
- Southwestern Power Administration:  
     appropriations, 1967, law, 403  
     appropriations, 1968—  
         hearings, 12287, 16393  
         report, 13678
- Sovereignty, profiles of newly independent  
 states, 11826
- Sovie, Ronald J., radio-frequency induction  
 heating of low-pressure plasmas, 18035
- Soviet bloc:  
     conferences in Soviet bloc (periodical),  
     3130  
     countries hold symposium on methods of  
     determination, isolation and fractiona-  
     tion of nucleic acids, 6487  
     economic reforms, subcommittee report,  
     12291  
     Soviet-block research in geophysics, astron-  
     omy, and space (periodical), 3886  
     Soviet public health (USSR periodical):  
         translations, 3889



- Soviet Union, *see* Union of Soviet Socialist Republics.  
 Soviet Zone of Germany, *see* Germany.  
 Sowder, Arthur M., Christmas trees, tradition and trade, 13216  
 Soybean meal, futures trading and open contracts, 3368  
 Soybean oil:  
     futures trading and open contracts, 3368  
     stored, predicting quality, 15862  
 Soybeans:  
     and products, transportation factors in marketing, 16546  
     futures, commitments of traders, 3112  
     futures trading and open contracts, 3366, 3368  
     growing, recommendations, 8828  
     stocks in all positions, 1644  
 SP series, *see* FMC SP series—MA SP series—NASA SP series—Special publication SP series.  
 Space:  
     office, for Senate, additional, hearing, 15176  
     standards, outdoor recreation, 14599  
     *see also* Outer space.  
 Space Administration, *see* National Aeronautics and Space Administration.  
 Space age, meaning (address), 1516  
 Space biology:  
     Aleksandr L. Chizhevskiy, pioneer, 12737  
     medical and biological problems of space-flights, USSR study, 1315  
     problems in space flight, USSR study, 6485  
     radiation, 10317  
     Soviet conference, reports, 1228  
     what should cosmonauts breathe? USSR study, 5019  
 Space cabins, *see* Spacecraft.  
 Space communications:  
     Apollo data, direct relay via communications satellite, feasibility, 15559  
     progress report, hearings, 2111  
     satellites for transmission of unidirectional (simplex) programs, use, USSR study, 15386  
     spacecraft tracking and communication, NASA facts, 16922  
 Space environment, *see* Environment.  
 Space exploration, *see* Outer space.  
 Space flight, *see* Astronautics.  
 Space medicine, *see* Medicine.  
 Space navigation, *see* Navigation.  
 Space photography, *see* Photography.  
 Space pilots, *see* Astronauts.  
 Space port, *see* Launching facilities.  
 Space probes, space trajectories program for IBM, 7090, 15524  
     *see also* Pioneer space probes.  
 Space radiation biology, 10317  
 Space sciences:  
     and applications program, 17021  
     report to Space Science Board, 2732  
     Goddard Space Flight Center publications, 1959-62 collection, 11578  
     mathematics in space science (series), 8513  
     NASA's space science and applications program, 12877  
     significant achievements, 8435  
     space applications, survey, 9824  
     technology, 8433  
 Space simulators:  
     clean vacuum with 1-watt refrigerator, attainment, 12930  
     NASA facts, 16925  
     trace contaminants collected, analysis of samples by microwave microscopy, 5711  
     utilization of infrared spectrophotometry in microcontaminant studies in sealed environments, 8869  
 Space stations:  
     dynamic response of elastic space stations, study, 15523  
     manned orbiting, thermal control considerations, 11538  
 Space stations—Continued  
     spinning, optimal attitude regulator, design method, 6894  
 Space suits:  
     extravehicular protection and operations, study, 12859  
     human water exchange, 12863  
     integrated mobility measurement of man and notation system for designing purposes, 11451  
     thermal manikin, 1435  
 Space technology:  
     dynamic behavior of liquids in moving containers, with applications to space vehicle technology, 5189  
     Goddard Space Flight Center publications, 1959-62 collection, 11579  
     notes, 6730-31, 8433  
     telecommunications, 6731  
 Space telemetry, *see* Telemetry.  
 Space vehicles, *see* Spacecraft.  
 Spacecraft:  
     acceleration load factor and velocity information, display in spacecraft entry monitoring system, 14439  
     aeroballistic launch vehicles, minimax attitude control, errata, 1419  
     aerospace maintenance safety, 2992  
     aerospace systems and equipment, human engineering design criteria, military standard, 15191  
     aerospace vehicle structures, metallic materials and elements, military handbook, 7860, 9370  
 Apollo—  
     command module—  
         low-speed dynamic-model investigation of configurations in Langley spin tunnel, 14452  
         stability characteristics, 8500  
     data, direct relay via communication satellite, feasibility, 15559  
     infrared equipped for reentry tracking, navigation accuracy, 1507  
     landings, water pressures and accelerations encountered, dynamic model investigation, 16970  
     launch escape vehicle, aerodynamic stability characteristics, 12925  
     lunar module, linearized error analysis of onboard primary navigation systems, 15556  
     lunar return, entry conditions encountered, trajectory optimization, 9919  
     passive infrared acquisition and tracking system, analysis, 5177  
     pitch control motor for launch escape system, qualification evaluation, 15560  
     probe antennas, effects on aerodynamic characteristics, 12948  
 Apollo/Saturn V replica model, design and fabrication considerations, 16988  
 arbitrary rotating, equations of motion, approximate solutions, 18054  
 attitude control—  
     during launch, 14384  
     in space, 15500  
     sensors, survey, 12882  
     systems, equilibrium analysis and application to, 14499  
     two subliming-solid-propellant thruster systems performance, 6884  
 body motions and angles of attack during Project Fire II reentry, 8020  
 cabins, atmospheres—  
     engineering tradeoffs of one-vs. 2-gas systems, literature review, 12879  
     physiological factors of inert gases, 9023  
     selection, engineering criteria, 16912  
 combustibility of materials in oxygen-hellum and oxygen-nitrogen atmospheres, 5706  
 composite materials for space vehicle application, 12861  
 contaminants produced by man in space cabin simulator, 11955

## Spacecraft—Continued

control, applications of artificial intelligence techniques, 12854  
 countdown, NASA facts, 16923  
 deformation of shallow spherical sandwich shells under local loading, 6895  
 Delta 36 (OT-3), performance of X-258 3d-stage motor, 14460  
 delta launch vehicle, lunar orbit mission analysis, 11495  
 design review for space systems, 14405  
 display-control systems, advanced integrated, simulator evaluations, 14374  
 dynamic behavior of liquids in moving containers, 5189  
 electrical connections, soldering, handbook, 15517  
 entry or reentry vehicles—  
   configurations, conical, etc., subsonic longitudinal aerodynamic characteristics, 2701  
   feasibility, parametric design, and analysis of unguided solid fuel rocket vehicle, 12853  
   heat shield, sensors measure surface ablation rate, 6758  
   lifting, ceramic heat shields, study, 15509  
   manned lifting vehicles, refurbishable thermostructural panels, research, 2605  
   piloted, evaluation of lateral-directional handling qualities, 12860  
   refurbishable panel, attachment mechanisms suitable for application, 5160  
   shapes, axisymmetric low-fineness-ratio, aerodynamic characteristics, at Mach 6.9, 14495  
   tension shell configurations, flow field and heat-transfer investigation, 5270  
   unmanned vehicles, tension shell and blunted 100° conical shapes, transonic aerodynamic investigation, 1504  
   environment control systems, oxygen regeneration, electrolysis cell, 2607  
   environment-simulation testing, effectiveness, 11549  
 ESSA, 1st fully operational weather satellite system, 1033  
 Federal item identification guides for supply cataloging, supplements, 3293  
 fibrous reinforcements for space applications, 11418  
 flight control systems, analysis and design, 12871-876, 14383-384, 15497-503  
 Gemini—  
   configurations, damping and stability in pitch and yaw, errors, 1474  
   escape system, development and qualification, 12945  
   experiment D-14, dual-channel, VHF-UHF transmitter, 10004  
   historical review, 1438  
   VHF-UHF polarization experiment D-14, antennas, 10009  
 Gemini-Agena docking, pilot-controlled, results of simulations employing full-size visual cues, 1495  
 guidance and control, 6730  
 guidance, electromagnetic study, 16896  
 heat transfer and temperatures distribution of conical porous membrane during planetary entry, 11554  
 HL-10 manned lifting entry vehicle, dynamic model, landing characteristics, 2685  
 human operator response to—  
   speed, etc., review, analysis and device demonstration, 16904  
   step transitions in controlled element dynamics, 5172  
 interplanetary vehicles, low-thrust, error analysis of celestial-inertial navigation, 8424  
 land landing couch dynamics computer program, 15530

## Spacecraft—Continued

landing, Gemini land landing development program—  
   full-scale investigations, 6901  
   supporting investigation, 6902  
 launch vehicles—  
   adaptive control, analysis and design, 15501  
   axisymmetric vibrations of partially liquid-filled cylindrical containers, 12942  
   flight loads, effect of canards in reducing, 14496  
   manual guidance of upper stages, piloted simulation study, 9887  
   simulated, effects of configuration geometry on supersonic aerodynamic characteristics, 5239  
   structural integrity of full-scale segments at transonic speed, verifying technique, 6906  
   unguided, slender-body, multistage, aeroelastic divergence characteristics, 9883  
   United States, for peaceful exploration of space, NASA facts, 9822  
   wind and turbulence response by non-stationary statistical methods, 15505  
 lifting-body—  
   all-flexible parawing for landing, low-speed tests, 11550  
   NASA facts, 8430  
 liquid-propellant multistage launch vehicle, response of scale model to longitudinal excitation, 11522  
 Little Joe II-lunar module model, hammer-head shaped, static longitudinal aerodynamic characteristics, 18013  
 location, random-scan display of predicted position, 9994  
 lunar-landing research vehicle—  
   electronic flight control systems, operational experience, 1496  
   Langley research facility, 6875  
 lunar-landing vehicle—  
   motion during landing impact, procedure for computing, 18043  
   touchdown stability, dynamic model investigation, 18042  
 lunar module—  
   docking with Apollo command module in lunar orbit, dynamic simulation, 11520  
   manual control of thrust axis during planar ascent from lunar surface to circular orbit, 1490, 14449  
 Lunar Orbiter I—  
   extended mission operations, 14395  
   extended-mission subsystem performance, 16900  
   photography, 14394  
 Lunar Orbiter II, photographic mission summary, 17936  
 lunar orbiting space vehicles, computer program determines thermal environment and temperature history, 16951  
 maintenance and assembly functions, extravehicular, astronaut capabilities to perform in weightless conditions, 15507  
 manned—  
   extravehicular activities in assembly and operation of large structures, 16901  
   lunar landing research vehicle, on-off rate command attitude control system flight-test evaluation, 9888  
   orbital, deduction of reentry plasma properties from radio signal attenuation data, 14494  
 Mariner IV, review of results, 14402  
 matrix-Holzer analyses for fully-coupled vibrations of clustered launch-vehicle configurations, 5158  
 measurement of extremely feeble torques on massive bodies, 2696  
 medical services and facilities on board, USSR, 8245

Spacecraft—Continued

Mercury-Atlas 7, spacecraft 18, 2d manned 3-pass orbital mission, description and performance analysis, 6865  
microbiological examination of space hardware, NASA standard procedures, 15521  
midcourse navigation using statistical filter theory, manual theodolite, and symbolic computer control, 6905  
minimum fuel ascent from lunar surface, 16994  
model, construction units for secondary school industrial arts, 2594  
orbital recovery program, selection of recovery sites for return from low circular orbits, 12970  
orbiting, use of analog computation in predicting dynamic temperature excursions, 6853  
pilot controlled docking simulation of Apollo command and service module with lunar module, 2689  
Pioneer spacecraft, NASA facts, 16924  
power systems—  
advanced technology conference, 1440  
electrical component technology, design study, 15964-965, 17399  
nuclear reactor simulator for nonnuclear testing, design, etc., 14487  
solar-cells, spectral dispersion, 15579, 16992  
powerplant, 3-loop Rankine-cycle, steady-state and dynamic operating characteristics, 2603  
problem of optimally disorbiting vehicle initially in elliptical orbit, solutions, 8427  
Project Mercury afterbody, flight test aerodynamic heating data compared with prediction methods, 14372  
random noise and vibration in space vehicles, 17705  
refrigerator, gravity independent vapor absorption, 14385  
rendezvous and docking, flight control systems, analysis and design, 12874  
reusable vehicles, X-15 airplane operation and cost experience, 2711  
rotor entry vehicle model, heat-transfer measurements on rotor blade, 12965  
rough-water landing characteristics, dynamic model investigation, 9871  
slosh dynamics study in near zero gravity, description, 11530  
small scientific, application of stored-program computer, 11533  
solar orientation, effect of planetary albedo, 16985  
spacecraft oceanography, United States activities, 18085  
spinning, simulation of—  
deployment dynamics, 14471  
reaction jet damping and attitude control system, 8485  
stability characteristics at Mach numbers of 10 and 26 of proposed slender atmospheric probe, 9894  
stability of attitude control systems acted upon by random perturbations, 11399  
sterilization technology, conference papers, 5190  
storage of biological samples, 9820  
structures—  
filamentary, meteoroid damage, 16899  
modal combination computer program for dynamic analysis, 15527  
subsonic static and dynamic stability characteristics of 120° cone configurations, 6893  
Surveyor III, preliminary report, 14403  
test personnel, use of remotely operated valve to protect, 15551  
three-axis attitude and direction reference instrument has only one moving part, 6806

Spacecraft—Continued

tracking and communication, NASA facts, 16922  
tracking task for man-machine research related to operator's effective delay time, 1426  
USAF aerospace vehicles, information handbook, 15882  
vestibular system and human dynamic space orientation, 1428  
viral antibody production in animals exposed to space cabin environment, 74  
visual attitude orientation and alignment system, 11457  
Voskhod spaceship, methods of programmed physiological measurements and experience of its use, USSR study, 6533  
Voskhod-2, orbital flight, cardiovascular and respiratory reactions of crewmen, 6555  
Voyager 1973 Mars Mission, space flight investigations, opportunities for participation, 17019  
see also Launching facilities.—Satellites.  
Spacecraft accidents:  
Apollo, Jan. 27, 1967—  
hearings, 6088-89, 9299, 10796, 12316, 12396  
report of review board, 9931, 17020  
Spaceflights, see Astronautics.  
Spaceport, see Launching facilities.  
Spaceship crews:  
cardiovascular and respiratory reactions during Voskhod-2 orbital flight, 6555  
Gemini escape system, development and qualification, 12945  
SPAD (Satellite Position Prediction and Display) equipment, see Electronic computers.  
Spaeth, M. G., wave reporting procedures for tide observers in seismic sea wave warning system, 4412  
Spain:  
atomic energy cooperation for civil uses, agreement, 8736  
background notes, 10094  
cotton textiles, trade, agreement, 7162  
market factors, 13459  
mineral industry, minerals yearbook chapter, 12307  
tracking stations, agreement, 11833  
west coast, sailing directions, change, 7001, 17071  
Spalding-Chi method, turbulent-skin-friction and heat-transfer charts, adapted, 11518  
Spalvins, Tairvaldis, deposition of thin films by ion plating on surfaces having various configurations, 1510  
Spangler, Jack G., effects of periodic blowing through flush transverse slots on turbulent boundary layer skin friction, 1431  
Spaniol, Joseph F., jr., United States courts, their jurisdiction and work, 10662  
Spanish-Americans:  
civil rights status, in Kleberg, Nueces, and San Patricio Counties, Tex., 14848  
low-income families in Spanish-surname population of Southwest, characteristics, 9389  
Spanish language:  
programmatic course, 14682  
instructor's manual, 13142  
se habla español, help for Spanish speaking youngsters, 13964  
Spanish West Africa, Spanish Sahara, labor conditions, 5079  
Spanworms, elm, annotated bibliography, 2287  
Spare parts, see Repair parts.  
Sparks, Alton N., large-scale field evaluation of electric insect traps to reduce bollworm populations in Reeves County, Tex., 11915  
Sparks, tracer-spark technique for flow-velocity measurements in hypersonic stream, 12856

# INDEX 1967

- Sparta, Wis., war on poverty, examination, hearings, 17665
- Speakers, *see* Loud speakers.
- Speakers Bureau for Washington Metropolitan area, 5798
- Speaking of space and aeronautics (series), 2733-34, 5280-81, 9932, 17022, 18059
- Special Assistant to the President for Consumer Affairs, Office of, press releases, 3761
- Special current business reports (series), 3573
- Special Forces, operational funds, NGB pamphlet, 5299
- Special groups, *see* Minorities.
- Special publication SP series, 13024 catalog, 11632
- Special reports, Cold Regions Research and Engineering Laboratory, 98, 1755, 4198-99, 15931
- Special Representative for Trade Negotiations, Office of:  
 appropriations, 1967, law, 501  
 appropriations, 1968—  
 hearings, 10632, 16390  
 reports, 10616, 16372  
 nomination of William M. Roth to be Special Representative, hearing, 6107  
 press releases, 3762
- Specialists:  
 education specialist and supervisory education specialist, examination announcement—  
 amendment, 205  
 discontinuance notice, 5931  
 educational media, national defense education act, institutes for advanced study, summer 1967, handbook for directors, 1003  
 freight rate specialist, examination announcement, 206  
 intergroup relations, examination announcement, 1923  
 standardization, training must be improved, USSR study, 11261  
*see also* types of specialists, or occupations.
- Specific gravity:  
 increment cores from Interior Alaska trees, 4835  
 loss in stored cottonwood and willow, relationship to visual estimates of decay, 2299  
 plantation-grown red pine, predicting, 8061  
 sulfuric acid, refractometric sensing in lead-acid cell operation, 18112
- Specific heat, low temperature, of palladium containing interstitial hydrogen, 1548
- Specific risk investment guaranty handbook, 4925
- Specific yield, compilation of specific yields for various materials, 16701
- Specifications, *see* Government supplies—  
*also* names of departments, etc., issuing specifications—*also* subjects.
- Specimen handling:  
 enzyme method of clearing and staining small vertebrates, 11605  
 storage of biological samples taken during orbital flight, 9820
- Spectacles, eyeglass frames, Tariff Commission report, 18236
- Spectra:  
 absorption bands of  $H_2O$ ,  $D_2O$ , and  $CS_2$ , intensity measurements, 1550  
 acridine orange-DNA complex spectra, USSR, study, 12702  
 beta excited X-ray spectra, compilation, 5789  
 cadmium sulfide spectrum, effect of optical radiations, etc., on trapping, 14455  
 characteristics of water-soluble protein fraction of human brain, 12707  
 computer programs perform spectral analyses of up to 7 time series, 2661
- Spectra—Continued  
 differential energy and angle Cs137 gamma rays in water and air, 13326  
 dynamic data characterized by time-varying frequency spectrum, method of analyzing, 16396  
 emission, of various thermoluminescent materials, 1552  
 energy distribution of unfiltered X-rays from 250 kV constant potential machine, 1789  
 far infrared spectra of silicate minerals, study, 9841  
 flash spectrum from solar eclipse, 11551  
 frequency spectrum of short-period fluctuations of sea water temperature, USSR study, 1180  
 gamma-ray, analysis by method of least squares, computer program, 8630  
 infrared—  
 metal oxides, 2723  
 plastics and resins, elastomers, 15636  
 ion chambers simplify absolute intensity measurements in vacuum ultraviolet, 1447  
 lunar gamma radiation, spectral composition, USSR study, 1281  
 neutron spectral consideration affecting projected estimates of radiation embrittlement of Army SM-1A reactor pressure vessel, 1554  
 power spectral densities, off-road ground roughness, 4195  
 power-spectral-density computer program, 11481  
 power spectral shapes, fatigue life under random loading, 17013  
 solar-cell space power systems using spectral dispersion, 15579, 16992  
 solar spectrum 2935A to 8770A, table, 1522  
 spark-source mass spectra of aromatic hydrocarbons using spinning electrode, 11380  
 spectral energy source, control apparatus, 18004  
 stellar, theory, 12975  
 system input, experimental effects in tracking task for man-machine research, 5174  
 tables of spectral-line intensities below 2450 angstroms, revision, 14514  
 X-ray, produced when thick silicon targets are bombarded with 1.05 and 1.25 million volts electrons, 2683  
 X-ray spectral analysis, production of instruments, USSR study, 8265
- Spectrochemical analysis, *see* Spectroscopy.
- Spectrograms, artificial meteors, photometry, 9902
- Spectrographs, fast slitless, description, 18014
- Spectrography, emission, determines trace levels of metallic corrosion, 6850
- Spectrometers:  
 fast neutron, advanced design, 2669  
 grating, performance capabilities, 1549  
 mass—  
 miniaturized double-focusing, evaluation, 2599  
 solid materials analysis with ion-microprobe sputter source, 5178  
 mass, duty-free entry for—  
 Indiana University, 7652, 14888, 16356  
 Princeton University, 618, 7651, 14885, 16354  
 nuclear magnetic resonance, improved, 14433  
 portable, monitors inert gas shield in welding process, 16960  
 sensitive recording NMR ultrasonic spectrometer, 2744  
 X-ray wavelength conversion tables and graphs for qualitative electron probe microanalysis, 17039

**Spectrometry:**

atomic absorption, determination of gold in geologic materials, 16688  
 coal, advances, absorption, 16848  
 gas chromatographic-mass spectrometric methods of analysis, review, 13033  
 infrared and ultraviolet techniques and spectra-structure correlations, 6631  
 ionizing radiation, main problems, 123

**mass—**

analytical methods, 11351  
 spectrometric analyses of coal-tar distillates and residues, 14354  
 trace elements contained in samples from closed environment at 258 mm. hg, analysis, 10234  
 reactor fuel element solution, analysis, 13333

**Spectrophotometers, transmission characteristics of autoanalyzer colorimeter filters determination, 7352****Spectrophotometry:**

atomic absorption, modified method for determining uranium isotopes, 14368  
 infrared—  
   measurement of trace levels of deuterium oxide in biologic fluids, 11964  
   use in quantitation of trace levels of deuterium oxide in water, 10236  
   utilization in microcontaminant studies in sealed environment, 8869

report, 14518

slitless absolute spectral photometry method, 5247  
 transmission, determines blood oxygen saturation of hemolyzed samples, 16936

**Spectroscopy:**

far infrared spectra of silicate minerals, study, 9841  
 flame spectroscopy analytical applications, 1800-1966, bibliography, 8519  
 infrared absorption, use for representation of lipids of skin surface, Yugoslavian study, 12667  
 infrared, intensity measurements of absorption bands of  $H_2O$ ,  $D_2O$ , and  $CS_2$ , 1550

mass, bibliography of literature, compiled by computer method, 15961, 17393

microwave, analysis of samples, for trace contaminants collected from space simulator, 5711

Mosbauer, standard for chemical shift of iron compounds, 15588

spectrochemical analysis of coal ash, 14342  
 temperature measurements in plasmas, 2714

Spectrum, *see* Spectra.

Spectrum analyzers, calibration, means for rapid method, 14443

**Speculation:**

corn futures, trading, 16112  
 futures trading and open contracts—  
   cotton, wool and wool tops, cottonseed oil, and soybeans, 3366  
   eggs and butter, 3369  
   potatoes and butter, 3367  
   wheat, corn, oats, rye, soybeans, and soybean products, 3368

potatoes, wool futures, commitments of traders, 3111

trading in commodity futures, regulations dealing with excessive credit, hearings, 17594

wheat, corn, oats, etc., commitments of traders, 3112

**Speech:**

disorders, causes, etc., 18178

international characteristics as criterion of emotional state of man under conditions of space flight, analysis, 6507

pathology, professional careers, examination announcement, 13448

speech process, conference proceedings, 7061

Speech pathologist, examination announcement, discontinuance notice, 14861

**Speed:**

optimal speed problems, USSR study, 4959  
 parasitic-load speed control for solar-Brayton system turboalternator, 5258  
 static parasitic speed controller for Brayton-cycle turboalternator, 17004  
 two-spool solar-Brayton system turboalternator, valve-speed control, 5257  
*see also* Air speed.

Speers, Charles F., pales weevil, 4821

Speir, Reginald, soil survey of Adams County, Pa., 13123

Spelling improvement, phoneme-grapheme correspondences as cues, 1010

Spencer, Bernard, Jr., hypersonic aerodynamic performance of minimum-wage-drag bodies, 1515, 16971

Spencer, John D., pneumatic transportation of solids, symposium, 2542

Spencer, John S., Jr., Arizona's forests, 2336

Spencer, Richard N., electric smelting of complex lead-zinc sinter, 14353

Spencer, Robert H., tip vortex core thickening for application to helicopter rotor noise reduction, 4220

Spergel, Howard, busing kids to suburbs, 10928

Spermatozoa, rabbit, electronic method for counting and sizing, 11954

Sphaeroneelopsis monothrix, *see* Crustaceans.

**Spheres:**

ballasted, dynamic flight behavior at Mach numbers 0.4 to 14.5, 18029

behavior and measurement of wind profiles, 11537

dielectric, immersed in collisional plasma, resonant frequencies, 12929

diffraction of normal shock wave by sphere, 17015

elastic, monostatic reflection of acoustic waves, techniques for numerically evaluating formulas, 14594

forces on sphere moving steadily along circular path in viscous fluid, 10258

microscopic, drag coefficients in free-molecule flow, 11407

opaque, in space, theoretical solution on nonlinear problem of transient cooling, 14458

*see also* Ulbricht sphere.

Spherical joint connects axially misaligned flanges, 15543

**Spheroids:**

orbital prediction and differential correction using Viotti's spheroidal theory for artificial satellites, 8482

radial spheroidal wave functions of 1st and 2d type, tables—

  oblate, 10062, 17087

  prolate, 10010

Sphyrnidae, *see* Sharks.

Spices, foreign agriculture circulars, 3345

Spider monkeys, *see* Monkeys.

Spies, *see* Espionage.

Spijkerman, Jon J., Mossbauer spectroscopy standard for chemical shift of iron compounds, 15588

**Spillways:**

Holt Lock and Dam, Warrior River, Ala., hydraulic model investigation, 4744

Lower Monumental Dam, Snake River, Wash., hydraulic model investigation, 10949

**Spin (aircraft):**

relationship between magnitude of applied spin recovery moment and ensuing number of recovery turns, 14474

**Spin (atomic):**

finite lattice heat capacity effects on spin-lattice relaxation, 4516

**Spin (spacecraft):**

deployment dynamics of spinning spacecraft, simulation, 14471

Spin reduction, *see* Desplaning.

Spinach, canned, U.S. standards for grades, 10879

- Spinal cord:  
injuries and diseases, research funds, law, 419  
injury, bibliography, supplement, 5585  
neuronal structure and synapses, characteristics and significance in carnivores, USSR study, 12711
- Spindler, Evelyn B., what to do when your home freezer stops, 10173
- Spindler, Russell S., world geography II, high school course, study guide to be used with USAFI course D 226, 15180
- Spinel, recrystallization of chrome spinel, 9775
- Spinning:  
cotton properties, as affected by management practices, 11945  
paraboidal tension networks, 16903  
spiny bollworm, *see* Bollworms.
- Spiral spring/strain gage combination accurately measures shock induced deflection, 1468
- Spirituans liquors, *see* Liquors.
- Splices, *see* Connectors (electric).
- Spokane, Wash., area wage survey, 16815
- Sponsors:  
Neighborhood Youth Corps projects, directory, 2486  
Neighborhood Youth Corps, technical information guide to placement of enrollees with epilepsy, 2488
- Spool valve cycles at controlled frequency, 2635
- Sport Arbitration Board, progress, hearing, 17646
- Sport fisheries, *see* Fish and fisheries.
- Sport Fisheries and Wildlife Bureau:  
appropriations, 1968, hearings, 7734  
employment opportunities, 14056  
policy for animal damage control, 11078  
resource publications (series), 1081, 2280-S1, 4808, 6356, 8033-34, 12548, 15267, 16624-626, 17784-785  
technical papers, 4811-12, 8042, 12551, 14070, 16636, 17787
- Sporting goods, Federal item identification guides for supply cataloging, supplements, 3292
- Sports:  
national sports and physical fitness test, 1561  
Peace Corps, 5384  
underwater, USSR, 6490, 6552  
Spotlight on day care, 1894  
Spotsylvania, Battle of, 1864, where hundred thousand fell, 1533
- Sprague, G. F., corn production, 1682
- Spray-dried milk, *see* Milk.
- Spray-on electrodes enable ECG monitoring of physically active subjects, 9825C
- Sprayable birefringent coating enables strain measurements on large surfaces, 2680
- Sprayers, power, general information, 1691
- Sprays and spraying:  
aerial application, problems  
detection of mild poisoning by pesticides, automated method, 13351  
endrin and carbon tetrachloride, 4252 I.-V., 17410  
gibberellic acid spray, effect on seedlings of eastern redcedar, bur oak, and red oak, 11129  
plasma spray process, use in producing multilayer refractory nozzles, 6774  
spread factor of water droplets, 10149
- Spremann, Kenneth P., free-steam interference effects on effectiveness of control jets near wing tip of VTOL aircraft model, 14478
- Spring, freezing temperatures damage knob-cone pine, 8117
- Springer, Victor G., revision of circumtropical shorefish genus *Entomacrodus*, etc., 11604
- Springfield, H. W., percentage of filled four-wing saltbush seeds, 11128
- Springfield, Mass., housing discrimination, report, 4385
- Springe (mechanism):  
air spring suspension system for vibration testing, 9831  
elastic guides reduce hysteresis effect in Belleville spring package, 8450  
excellent spring properties developed in 2 nickel alloys for use at cryogenic temperatures, 17930
- Sprinklers, irrigation systems, description, buying, etc., 5638
- Sprout prevention in potatoes, 17301
- Spruce:  
Engelmann—  
defect estimation, Blue Mountains of Oregon and Washington, 2289  
indicators and associated decay, Colorado, 6371  
spruce-fir clearcuttings in Colorado, stocking of reproduction, 2314  
Spruce budworms, *see* Budworms.
- Spur gears, *see* Gears.
- Spurlock, Hughes H., competitive position of U.S. farm products in Japanese market, 995
- Sputtering, ion-microprobe sputter source, mass spectrometer analysis of solid materials, 5178
- Squabs, raising, 13221
- Squad leaders, guide for squad leaders, Army pamphlet, 11988
- Squash, pickleworm control, 4116
- Squaxin Indians, convey land to Squaxin Island Tribe, reports, 16239, 17627
- Squids, review of Valybuteuthidae and evaluation of its relationship with Chiroteuthidae, etc., 14538
- Squire, James L., Jr., surface temperature gradients observed in marine areas receiving warm water discharges, 14070
- Sprawley, John E., stress intensity factors for crackline-loaded edge-crack specimens, 6869
- Srinivasan, S., simultaneous development of velocity and concentration profiles in reverse osmosis systems, 11218
- SRS series, 5559
- SSA, *see* Social Security Administration.
- SSC, *see* Ship Structure Committee.
- SSI series, 11801, 14647-649, 15741-742, 17204, 18209-210
- SST (supersonic transport), *see* Airplanes.
- Stabe, Roy G., cold-air performance evaluation of fuel pump turbine for M-1 hydrogen-oxygen rocket engine, 6868
- Stability:  
dynamic, of rotor-bearing systems, 1439  
numerical solutions of ordinary differential equations, 5243  
precision capacitor has improved temperature and operational stability, 16885  
riprap, under wave action, rock movement in large-scale tests, 16520  
static—  
effects of jet pluming of ballistic bodies at Mach number of 6.00, 2691  
effects of jet pluming on rocket models, 14467  
single-stage sounding rocket, investigation, 12933  
theory of multistep methods, 11523  
thermosetting plastics, improved strength, thermal and chemical stability, 14412
- Stability of aircraft:  
all-flexible parawing vehicle, wind-tunnel investigation of static aerodynamic characteristics, 11488  
augmentation system, effects on performance of non-instrument-qualified light-aircraft pilots during instrument flight, 11519
- DYNAGYRO, mechanical stability augmentation system for helicopters, 13307  
dynamic, transport cruising at Mach number 3, errata, 14447



**Stability of aircraft—Continued**

Gemini configurations, oscillatory stability in pitch and yaw, errata, 1474  
influence of response feedback loops on lateral-directional dynamics of variable-stability transport aircraft, 11516  
static stability characteristics of 76° swept arrow wing model, etc., 14473  
variable-sweep tactical fighter model, rolling stability derivatives at subsonic and transonic speeds, 6887

**Stability of spacecraft, see Spacecraft.**

**Stabilization:**

economic, promote by requiring disclosure of finance charges for extended credit—  
hearings, 10822, 12402  
report, 13812

**lead-zinc industry—**

hearing, 12413  
report, 10752  
national policies, ideology and inflation, implications of price and wage trends (remarks), 15249

Stacking-fault energy, *see* Force and energy.  
Stacyville quadrangle, Maine, bedrock geology, 17825

Stadiums, seating, market analysis, 14132

Staff development, *see* Administrative development.

Staff nurses, *see* Nurses and nursing.

Staffing American colleges and universities, 7913

Stage, *see* Drama.

**Stagnation point:**

boundary layer with suction and injection in equilibrium dissociating air, 8499  
general 3-dimensional, heat and mass transfer, 12869

**Stainless steel:**

alloys—  
alloy 301, materials data handbook, announcement and distribution information, 9851  
corrosion resistance in nuclear reactor superheaters, 9797  
in aqueous environments, crack propagation, delayed failure, and residual static strength, 6872  
complex assembly, ultrasonics permits brazing without flux, 11392  
electroless nickel plating, 5202  
powder compact, homogeneity characterization of NBS spectrometric standards, 2737  
stabilization of carbon and nitrogen, and its effect on mass transfer in stainless steel-Cb-4Zr-potassium system, 12864  
stabilizing components for cryogenic service, 17987  
surgical cutting instruments, USSR study, 6517  
table flatware, Tariff Commission report, 1646, 17255  
type 316, high temperature vacuum fatigue testing with resonance-type machine, 11676

**Stains and staining:**

procion bright-red as vital stain, USSR study, 14212  
vital staining of muscle tissue during excitation, USSR study, 14255  
Stains and staining (microscopy):  
enzyme method of clearing and staining small vertebrates, 11605  
Well stain on liver, histochemistry, aerial application, problems, 10320

**Stall (aircraft):**

pitch-up, piloted simulation study of operational aspects, 12967  
stall barrier as new preventive in aviation accidents, 1823

Stallings, Robert L. jr., local flow properties and drag coefficients for family of blunt bodies, 18056

**La Stampa (periodical):**

index, 3410

**La Stampa sera (periodical):**

index, 3410

Stanper, John W., titanium, 8380

Stamps, *see* Food stamps—Migratory-bird-hunting stamps—Postage stamps.

Standard industrial classification manual, 8922

Standard Magnetic Observatory, *see* Automatic Standard Magnetic Observatory.

Standard Meat Co., relief, 7640

Standard terminology for instruction in State and local school systems, 10942

Standards and Conduct, Select Committee on, House:

create—  
hearings, 6042, 7754  
report, 651

Standard and Conduct, Select Committee on, Senate:

hearings, 9331  
report, 9296

**Standards and standardization:**

commercial standard series, 5283, 8517, 11581, 12978

DCS equipments/systems performance standardization program, DCA circular, 9360

**Defense Department—**

cataloging and standardization program, semiannual reports, 6032, 7739, 16313

specifications and standards, index, 13920, 15188

supplements, 3412

standardization documents, supply classification listing, 3324, 13919

standardization policies, procedures, etc., manual, 3893

directory of United States activities, 15589

directory SD series, 16474

Federal specifications and standards, index, 6335

supplements, 3409

Federal standards, 1072, 2267-70, 4794-96, 6307-33, 8008, 9498, 11062-65, 16601-604, 17764

guide, 4885

Federal test method standards, 9499, 15252, 16605

international commercial standards activities, U.S. participation, hearings, 753

military standards, 4678, 6151, 7861-62, 9372-78, 10899, 15189-198, 12443-444, 16465-471, 17700

NASA specification and standards, 15520

national standard reference data system, extend service—

hearings, 12405  
reports, 10601, 14956

product standard PS (series), 5285-87, 6918-19, 11586-587, 12988, 17037

publications, price list, 2804

standard for accurate phase-angle measurements at audio frequencies, 6924

standard reference materials—

catalog and price list, 17033  
general information, 11585

NBS white cast iron and stainless steel powder compact, 2737

new materials, publications, etc., 11588

news for users of, 12987

standards laboratories, conference, 1966

proceedings, 12983

training of specialists in standardization must be improved, USSR study, 11261

USSR, recent developments in standardization, 8240

*see also* Labor standards—*also* subjects.

Standards of Official Conduct Committee, House:

establish, report, 9109

operating funds, authorize, report, 16253

Standards of performance for film badge services, 10047

# INDEX 1967

- Stanford Linear Accelerator Center, remarks, 15975
- Stannous chloride, vapor pressure,  $\text{SnCl}_2\text{-ZnCl}_2$  binary system, 16864
- Stannous fluoride:
- mouthwash, use in school preventive dentistry program, feasibility study, 17352
  - use as prophylactic paste, as topical solution, and in dentifrice, clinical evaluation, 14319
- Stansell, Marion J.:
- measurement of trace levels of denterinm oxide in biologic fluids using infrared spectrophotometry, 11964
  - process for continuous flow, in-line fractionation and exchange of volatile solvents in automated chemistry, 75
  - quantitation of trace levels of deuterium oxide in water using infrared spectrophotometry, 10236
- Stanton, Beryle, news for farmer cooperatives, 3631
- Star, Shirley A., number and kinds of children's residential institutions in United States, 13415
- STAR, see Scientific and technical aerospace reports.
- Starbird, I. R., costs of producing upland cotton in United States, supplement, 16485
- Starch:
- and related products in selected countries, 15986
  - classification definitions, 18123
  - use in textile industry, economic evaluation, 7881
- Starfishes, ornamental use, 6346
- Starr, Fred E., relief, 333
- Starr County, Tex., administration of justice, civil rights aspects, 13433
- Stars:
- analytical approach to determination of stellar fields of view, 11557
  - 5,000- and 10,000-year star catalogs, 8683
  - micrometer measures of 256 double stars, 11628
  - micrometer measures of 1164 double stars, 15623
  - point-source light sensor circuit is insensitive to background light, 2637
  - star/horizon simulator used to test space guidance system, 11447
  - stellar evolution, calibration of Hertzsprung-Russell diagram in terms of age and mass for B and A stars, 2702
  - stellar spectra, theory, 12975
  - variable, in Small Magellanic Cloud, 2859
- STARS (satellite telemetry automatic reduction systems), see Electronic data processing systems.
- Starting and managing series, 5497, 5679, 15733
- Starvation:
- acute, body composition changes, metabolic aspects, 7412
  - acute, in normal humans, metabolic aspects—
    - ten days, 122
    - performance and cardiovascular evaluation performance, 121
- State aid, see Grants-in-aid.
- State and local government employment and payrolls, 3894
- State banks:
- member banks of Federal reserve system, list, supplements, 3895
  - membership in Federal reserve system, weekly changes, 3090
- State boards and departments of education, see Educational boards and departments.
- State courts, habeas corpus, applications for writs by persons in custody pursuant to judgments, law, 425
- State Department:
- appropriations, 1967, law, 501
  - appropriations, 1968
  - amendment, 13721
- State Department—Continued
- appropriations, 1968—continued
  - hearings, 10632, 16390
  - reports, 10616, 16372
  - background notes, 1613-24, 5520-23, 7139-42, 8707-10, 10090-95, 11814-821, 13130-136, 14664-669, 15753-762, 17212-216, 18221-225
  - biographic register, 14670
  - bulletin, 3198
  - career opportunities—
    - communications and records, worldwide assignments, 5524
    - secretaries, stenographers, typists, 11831  - contracts for diamonds for stockpile, balance-of-payments aspects, GAO report, 15293
  - cultural presentations, USA, report, 17226
  - department and foreign service series, 2879, 8711-12, 10096-98, 14670-671, 17217, 18226
  - film library, film list, 8717
  - food donation programs administered by nonprofit organizations, extent of audits, GAO report, 8149
  - Foreign Service travel regulations, revision needed to reduce per diem costs, GAO report, 15298
  - general information, 17217
  - indexes, living costs abroad, 5084
  - international information and cultural series, 7150, 14678, 17226
  - news letter, 3199
  - organizational ineffectiveness within department, causes, 5525
  - press releases, 3763
  - publications—
    - annotated bibliography, 7146
    - list, 3868  - records, microcopy, pamphlet to accompany—
    - internal affairs of
      - Bolivia, 18063
      - Central America, 18067
      - Honduras, 18064
      - Nicaragua, 18062    - political relations of U.S. and—
      - Belgium, 18068
      - Costa Rica, 18066
      - Honduras, 18065    - relating to Belgium and other states, 18069  - reorganization, hearings, 956, 2121, 4642, 6112
  - index, 16416
  - science, foreign affairs, and State Department (address), 14671
  - secretaries, overseas opportunities, 8722
  - security, investigation, hearings, 2131
  - seminar, civil rights and race relations, 2879
  - tape-recorded briefings, discussion guides, 18227
  - telephone directory, 15764
  - United States agencies in Vietnam, audit and inspection programs, 1966, GAO review, 9553
  - Vietnam commercial import program, AID's management and operation, GAO review, 15302
- State Departments of Education, Advisory Council, see Advisory Council on State Departments of Education.
- State forestry, see Forests and forestry.
- State Health Agencies, Advisory Committee on HEW Relationships with, see Advisory Committee on HEW Relationships with State Health Agencies.
- State of the Union, see United States.
- State postal map series, 5391-5402, 11698, 15649-15662
- State Technical Services, National Conference, see National Conference on State Technical Services.

State Technical Services Office :  
 annual report, 7572  
 newsletter, 3896  
 program (remarks), 4150  
 Statements, see Addresses, lectures, etc.  
 States :  
 aerial dispersal of pink bollworm, 5678  
 agencies for surplus property, directory, 8188  
 agriculture departments, 1967, directory, 7836  
 air pollution control programs, 2838  
 air pollution laws, digest, 1568  
 approval of teacher education proposed standards, 6195  
 arts activities, summary, 6930  
 billboard removal compensation under highway beautification act of 1965, opinion of Attorney General, 8279  
 brucellosis eradication activities, 3919  
 census of population, 1960, migration between State economic areas, 13402  
 chickens and eggs, monthly egg production, 5684  
 child labor law, summary, 5047  
 citrus fruits, production, use, value, by States, 1909-10, 1964-65, revised estimates, 5679  
 civil defense directors, list, 1904, 14844  
 civil defense, labor's role, training course, instructor's guide, 198  
 climates, 4746, 9425-26, 16530-531  
 compensatory provisions for occupational diseases, 8337  
 congressional districts, redistricted for 90th Congress, 183, 1886-88  
 congressional redistricting standards, establish, reports, 9121, 9126, 10793, 13657, 17573  
 construction expenditures, 5891-93, 10384, 16033  
 cooperative State-Federal salmonella reports, review of salmonellosis in cattle, 9  
 county business patterns, 1965, employment and payroll statistics by county and by industry, 7475  
 debt pooling, laws prohibiting or regulating, 5048  
 discrimination in employment, laws prohibiting—  
     because of age, summary, 5050  
     fair employment practice acts, 5049  
 divisions of vocational rehabilitation and agencies for the blind, directory, 7220  
 education departments' guidance, counseling and testing publications, guide, 6185  
 education, unfinished work (address), 2192  
 educational records and reports series, handbook, 10942, 16509  
 elective offices, 13361  
 employee-retirement systems of State and local governments, 1965-66 finances, 7492  
 employment and earnings statistics, 14283  
 equal pay laws, 2975  
 farm labor situation, 7882  
 Federal grants—  
     construction of roads, laws, compilation, 1988  
     gold mining subsidies, hearings, 12302  
     guidelines for plan programs for education of handicapped children, 10933  
     health planning and services—  
         hearings, 12305, 17670  
         law, 461  
         reports, 16230, 16247  
     highway construction act of 1966—  
         hearings, errata, 4656  
         reports, 638, 646  
     highway safety act of 1966, report, 646  
     medical assistance under title 19 of social security act, limitations, report, 697  
     provide periodic congressional review, etc., hearings, 735

States—Continued  
 Federal grants—Continued  
     radiation workers recordkeeping, hearings, 1974  
     vocational rehabilitation services to the handicapped, etc.—  
         hearings, 15172, 17600  
         law, 16144  
         reports, 14972, 16366  
         6 steps forward, 17186  
 Federal-State highway management practices and procedures, hearings, 2055  
 flags, reproductions, 519  
 forest fire control—  
     cooperative program financing, 9527, 15276  
     laws, analysis, 9526  
     forestry schools, list, 4822  
 fresh fruit and vegetable shipments, 10873-874  
 governments—  
     education directory, 15211  
     employment of scientific, professional, and technical personnel, 15450  
     finances, 1966 summary, 10380  
     handicapped persons, employment assistance for, directory, 15664  
     health authorities, 1967, directory, 15680  
     health insurance enrollment under social security, 10083  
     highway beautification projects, public participation, 5477  
     highway safety programs, national uniform standards, 13555  
     honey and beeswax, production, etc., 4150  
     Indian-State relations in their historical perspective (address), 15322  
     interlocal governmental cooperation, study of 5 States, 13942  
     interstate taxation act, reports, 9084, 13682  
     ionizing radiation legislation and regulations, 7093  
     labor laws for women, summary, annual digest, 14281  
     labor legislation enacted in 1966, 5052  
     land-grant colleges and universities, Extension Service review (periodical), 3255  
     law enforcement, Federal assistance, amend act—  
         law, 502  
         reports, 635, 929  
     laws—  
         compulsory school attendance, summaries, etc., 2191  
         prohibiting or regulating debt pooling, summary, 16811  
         sex discrimination in employment, 17295  
         veterans' rights, benefits, etc., digests, 16345  
     legislation, 1966, of special interest to women, highlights, 11910-911  
     legislation of special interest to women, 1966 highlights, 10141  
     legislative program of Advisory Commission on Intergovernmental Relations, 15822  
     legislatures, equal pay activity, 2974  
     life tables, 1959-61—  
         Alabama-Missouri, 5444  
         Montana-Wyoming, 5445  
     local government, interlocal agreements and contracts handbook, information report, 8801  
     manpower and training needs in water pollution control, report, print as Senate document, report, 16362  
     maximum daily hours for women, 2976  
     maximum weekly hours for women, 8795  
     maximums and other methods of limiting money payments to recipients of special types of public assistance, 18205  
     mental health authorities, conference with Surgeon General, Public Health Service, proceedings, 5457  
     mental health planning, 1966 final reports, 17141

# INDEX 1967

## States—Continued

mental hospitals, patient movement, etc., 15697  
 merit systems, extend to additional programs financed by Federal funds, hearings, 12409  
 milk cows on farms, production per cow, etc., 5683  
 minimum wage laws and orders, fringe benefit provisions, 5593  
 names, abbreviations for use with Zip code, 7043  
 national and international labor unions, directory, changes, 2498  
 National Driver Register, records exchange service, 18087  
 noxious weed seed requirements recognized in administration of Federal seed act, 2138-39  
 outpatient psychiatric clinics, annual statistical report, 14633  
 partnership for health, information and policies on grants to States—  
   comprehensive health planning, 15702  
   public health services, 13086  
 plant regulatory officials, 5618  
 population—  
   estimates, 178, 4352  
   households estimates, 7486  
   illustrative projections, 5883  
   revised projections, 16014  
 postal maps, 5391-5402, 11698, 15649-662  
 pricing methods used in purchase of prescribed drugs under federally aided public assistance programs, Welfare Administration, GAO review, 9556  
 prisoners, 1964, admissions and releases, 17129  
 professional workers in agricultural experiment stations and other cooperating institutions, 5622  
 psychiatric clinics, 1964, outpatient service—  
   data on patients, annual statistical report, 1586  
   older adult patients, 5453  
 public assistance, costs—  
   per casemonth, 1966, for administration, services, and training.  
   State and local administration, services, and training, 15233, 16541  
 public facility needs and financing, study, 1977  
   print additional copies, reports, 6082, 10586  
 public school finance program, 1966-67, compilation, 17724  
 publications, monthly checklist, 3569  
 reinforcing role in education, 13961  
 report on 1965-66 compensatory education programs under title I, Public law 10, 7890  
 salary ranges of positions in employment security, etc., 4898, 11194  
 school systems—  
   standard terminology for instruction, 10942  
   statistics, 7914  
 Senators, 90th Congress, 11st, 9179  
 soil conservation districts, status of organization, etc., 17207  
 soil surveys for community planning and resource development, report, 2083  
 southeastern, State and private forestry, more timber, more jobs, 17798  
 State and local government retirement systems covering employees also covered by Federal old-age, survivors, disability, and health insurance program, survey, 2868  
 State and local programs, planning, criteria for evaluation, study, 16411  
 State and regional defense airlift planning, change, 9447  
 State government and education challenge (address), 1015

## States—Continued

State-local taxation and industrial location, interrelationship, 15823  
 State safety code activity, 1965-66, highlights, 6600  
 State safety code comparison studies, 5053  
 tax collections, report, 180  
 tax revenue, quarterly summary, 5894, 7495, 10385, 16034  
 taxation of farmland on rural-urban fringe, summary of preferential assessment activity, 16486  
 technical services act of 1965, amend to include Guam—  
   law, 175  
   report, 891  
 technical services activities (remarks), 4450  
 technical services, designated agencies, list, 10469  
 technical services, discipline-oriented or problem-oriented? (address), 4452  
 technical services national conference, report, 12131  
 unemployment insurance laws—  
   comparison, revised series, 6199, 17727  
   evaluation of coverage and benefit provisions, summary tables, 12471  
   significant provisions, 13973  
 utility commissions, summary and tabulation of information, 17655  
 vocational rehabilitation agencies—  
   caseload statistics, 5588  
   heart disease, cancer, stroke, characteristics of clients rehabilitated, 7221  
 vocational-technical program development, reports, 6196  
 women's eligibility for jury service, laws, 5603  
 workmen's compensation laws—  
   comparison of major provisions with recommended standards, 5046  
   summary, 9696  
*see also* Intergovernmental relations.  
 Statewide long-range planning for libraries, report of conference, 1016  
 Stati Uniti d'America, informazioni doganali ad USO dei Nonresidenti, 13907  
 Static electricity, *see* Electrostatics.  
 Static inverters, *see* Inverters.  
 Static parasitic speed controller for Brayton-cycle turboalternator, 17004  
 Static stability investigation of sounding-rocket vehicle at Mach numbers from 1.50 to 4.63, 12934  
 Station wagons, standard models and special equipment requirements, military standard, 15189  
 Stationary device produces homogeneous mixture of fluids, 5221  
 Stationery, House Members, additional allowance, report, 7676  
 Statistical abstract of United States :  
   departmental edition, 14834  
   document edition, 14923  
   supplement, county and city data book, 1967—  
     departmental edition, 12041  
     document edition, 12201  
 Statistical briefs from around world (periodical), 3898  
 Statistical decision :  
   decision model algorithm of Leont'yev type, 17879  
   regulation of problems in statistical dynamics of automatic control systems, USSR study, 11244  
 Statistical design, *see* Statistics.  
 Statistical inference, theory and methods, 8507  
 Statistical processes :  
   control of nonlinear multivariable systems, 6725  
   Gaussian quadrature, abscissas and weights for, 5284

Statistical processes—Continued  
 multivariate equations developed for predicting volumes in Hawaii hardwoods, 8084  
 Statistical publications, *see* names of departments, etc., issuing publications.  
 Statistical Reporting Service:  
 appropriations, 1968, hearings, 10629, 12397  
 periodic reports, 11st, 10195  
 reports, checklist, 3091  
 SRS series, 5559  
 Statisticians:  
 agricultural, examination announcement, discontinuance notice, 17459  
 examination announcement, amendment, 17453  
 Statistics:  
 college course, basic statistics, study guide, 9362  
 combination statistical design for sensitivity testing, Mines Bureau circular, 9754  
 credibility, importance (remarks), 5038  
 Federal, local areas, directory, guide to sources, 1879  
 Federal statistical directory, 13353  
 Government programs, coordination and integration—  
 hearings, 14917  
 report, 14918  
 metropolitan area statistics, 16032  
 public health conference, proceedings, 11th national meeting, 18185  
 statistical reporter (periodical), 3900  
 statistical series releases, SEC, 3901  
 statistical studies in field geochemistry (series), 9573  
*see also* Regression (statistics)—Sampling (statistics)—Vital statistics—*also* subjects.  
 Statists:  
 downstream, contribution to interaction noise of single-stage axial-flow compressor, 9882  
 overall stator performance and turbine design, cold air investigation of turbine for high-temperature engine application, 5236  
 Statuary, *see* Sculpture and statuary.  
 Status of forces agreements, *see* Criminal jurisdiction.  
 Status of Women, Governors Commission on, *see* Governors Commission on Status of Women.  
 Status of world's nations, 17222  
 Statutes, *see* Law.  
 Statutes at large:  
 89th Cong. 2d sess.—  
 private laws, concurrent resolutions and proclamations, 16587  
 public laws and reorganization plans, 14036  
 tables of laws affected, 2257  
 Statutes of limitations, *see* Limitations (law).  
 Steady-state performance of 7-tube NaK-cooled potassium condenser, 12937  
 Steam:  
 high velocity, within tube, local heat transfer coefficients and static pressures for condensation, 9911  
 low pressure steam-water flow in heated vertical channel, final report, 7430  
 superheated, zirconium alloys with improved corrosion resistance, 9796  
 Steam-electric plants, *see* Electric power plants.  
 Steam power plant, equipment, Federal item identification guides for supply cataloging, supplements, 3283  
 Steamship conferences, *see* Shipping conferences.  
 Steamships, lines in foreign commerce of U.S., approved conference, rate and inter-conference agreements, 3037, 16576  
 Stearic acid, carbon 14 labeled, adsorption on iron, study, 14595

Stearns, R. T., preshot geophysical measurements, 15962  
 Stearns, Russell S., permafrost, perennially frozen ground, 1756  
 Stebbins, Frederick J., stiffness matrix solution for shells of revolution possessing variable thickness heat protection, 11513  
 Steel:  
 A302—B, simulated pressure vessel wall, neutron exposure, through-thickness notch ductility and tension properties, 17093  
 and tantalum apparatus, use for molten Cd—Mg—Zn alloys, 8397  
 chemical composition and hardenability, Federal standard, 11063  
 corrosion resistant, controlled ferrite content improves weldability, 8475  
 forgings, current industrial reports, 3169  
 foundries, current industrial reports, 4329  
 heat treatment and properties, 2739  
 high strength braze joints between copper and steel, 14420  
 higher strength, neutron irradiation embrittlement, 5356  
 identification symbols, Communist China, 6547  
 industry, 1947—65, indexes of output per man-hour, 5055  
 industry, water requirements, 12617  
 ingot producers, current industrial reports, 4329  
 iron and steel scrap, Southeast, sources, consumption, etc., 12797  
 minerals yearbook chapter, 2544  
 oxygen steelmaking, effect of lime structure, 6682  
 plain carbon, effects of rare-earth additions, 6686  
 products, identification markings, Federal standard, 2269  
 products, packaging, marking, and loading methods, recommendations of trade, amdt., 6920  
 reactor pressure vessel, neutron embrittlement, 5355  
 SAE 52100 steel hollow balls, rolling-element fatigue life, 6879  
 scrap, intermountain and northwestern Plains States, processing and marketing, 16855  
 steel test panel helps control additives in pyrophosphate copper plating, 17969  
 structural, radiation sensitivity, metallurgical variables as possible factors controlling, initial evaluations, 5357  
 T-1 and T-1A steel welds, effects of heat input rates on, 12894  
 trade and tariff information, summaries, 18237  
 ultrahigh-strength, study to minimize hydrogen embrittlement, 11470  
 welded steel penstocks, design, construction, etc., 17178  
 welding of AM 350 and AM 355 steels, 15552  
*see also* Stainless steel—*also* names of manufactured articles.  
 Steel castings, *see* Castings.  
 Steel mills:  
 inventories of shapes, current industrial reports, 3169, 12073, 14829  
 products, current industrial reports, 12081  
 Steele, Chester I., nomination, hearings, 6094  
 Steele, Gordon N., research on condensation mechanisms, 1140  
 Steele, Lendell E., neutron irradiation embrittlement of higher strength steels, 5356  
 Steelmark Month, designate May of each year, law, 417  
 Steelworks industry manpower survey, 17729  
 Steeple Rock mining district, N. Mex., geology and ore deposits, 6390  
 Stein, Edward S., calibration of 2 bicycle ergometers used by health examination survey, 7096

# INDEX 1967

- Stein, Lawrence H., STOP, computer program for supersonic transport trajectory optimization, 11415
- Stein, Manuel, incremental procedure for solution of nonlinear problems with applications to plates and shells, 2727
- Stein, Raisla, and children, relief, 7655
- Steinbeck, Klaus, short-term storage of yellow-poplar softwood cuttings, 11131
- Steinbilber, August W., State law on compulsory attendance, 2191
- Steinke, Ronald J.:
- aspect ratio and curvature variations for axial-flow-compressor-inlet stages under high loading, 9916
  - variable-geometry guide vanes to control rotor-inlet flow conditions, 5275
- Stellar evolution, *see* Stars.
- Stellators, Livermore 1-2 stellerator, 13329
- Stelluto, George L., industry wage survey, hospitals, 15448
- Stenographers:
- career opportunities await you, Army Department, 8896
  - examination announcement—amendment, 14855
  - supplement, 7549
  - opportunities in State Department, 11831
  - opportunities with FDA, 8046
- Stenomidae, systematic position of 2 taxa erroneously placed in family Stenomidae (lepidoptera), 5304
- see also* Microlepidoptera.
- Stephens, David G.:
- effect of model scale on structural-joint damping, 18025
  - flexible and rigid ring baffles for damping liquid oscillations in large-scale cylindrical tanks, 8493
- Stephens, Joseph R., dislocation structures in slightly strained tungsten, etc., 14486
- Stephenson, Richard W., land ownership maps, checklist of 19th century U.S. county maps in L.C., 16837
- Stephenson, Robert L.:
- river basin surveys papers, inter-agency archeological salvage program—departmental edition, 11973
  - document edition, 12193
- Stephenson, William:
- Australasian and American Hemisquilla ensigera, 6955
  - portunid crabs from International Indian Ocean expedition in Smithsonian collections, 12998
  - portunid crabs from Pacific and Indian Oceans in collections of Smithsonian Institution, 8540
- Steppes, snow cover and calculation of snow floods, USSR study, 1203
- Stepping up with PACE, 7915
- Sterculiaceae, *see* Melochia.
- Stereochemistry of organic compounds of phosphorus and arsenic, USSR, 1209
- Stereographic representation of Knoop hardness anisotropy, 18051
- Stereoscopic angle and its relationship to standard Air Force tests for depth perception, 70
- Sterility:
- chemosterilants to control bark beetles, 14108
  - Health, Education, and Welfare Department activities, report on family planning, 1136
- Sterilization:
- central sterile supply section of packaged disaster hospital, organization, 1577
  - classification definitions, 18119
  - spacecraft technology, conference papers, 5190
- Stern, Kurt H., Liesegang rings, 15590
- Stern, Robert L., technology and world trade, proceedings of symposium, 8520
- Sternberg, Heinz W., electrochemical reduction of coal, 16862
- Sterner, Mauritz A., relief, 16164
- Sternes, Gilbert L., climates of States, Oregon, 16531
- Sternlight, Peter D., remarks, Nov. 18, 1966, 2951
- Steroids, excretion during exposure to oxygen-helium atmosphere, 7366
- Sterrett, James R.:
- secondary jets from 2-dimensional nozzles with various exit Mach numbers for hypersonic control application, 5266
  - transition fixing for hypersonic flow, 18011
- Stethoscopes, electronic, for aircraft use, experimental, 11966
- Stevens, C. A., feasibility study of accelerator-booster, fast, pulsed research reactor, 13322
- Stevens, Mary R., automatic typographic-quality typesetting techniques, state-of-the-art review, 9942
- Stevens, Paul M.:
- effects of lower body negative pressure on physiologic changes due to bed rest, 7346
  - effects of 9-alpha-fluorohydrocortisone and venous occlusive cuffs on orthostatic deconditioning of prolonged bed rest, 7365
  - influence of long-term lower body negative pressure on circulatory function of man during prolonged bed rest, 1734
- Stevens, Richard F., jr., tungsten, 1416
- Stevens, Robert E., ponderosa pine tip moth, 4820
- Stevenson, Henry E., naval training bulletin, 3611
- Stewards:
- 1 and C, Navy training course, supp., 9979
  - 3 and 2, Navy training course, supp., 9979
- Stewart, John H., erosion and deposition produced by flood of Dec. 1964 on Coffee Creek, Trinity County, Calif., 17823
- Stewart, Joseph K.:
- effect of load pattern on transit temperatures and crushing of lettuce in transcontinental shipments, 11916
  - market quality of film-wrapped and naked-packed lettuce, 10152
  - nitrogen, its effect on transit temperatures and market quality of western lettuce shipped in piggyback trailers, 5644
- Stewart, M. A., cleaning and liquid contact with solids, classification definitions, 18124
- Stewart, Maxine G., occupational outlook quarterly, 3649
- Stewart, R. Keith, water pollution control, waste treatment and water treatment, selected biological references on fresh and marine waters, 8011
- Stewart, Ward, university-sponsored executive development programs in public service, 2193
- Stewart, William H.:
- addressee, etc.—
  - Nov. 27, 28 and Dec. 6, 1966, 7080
  - Mar. 21, 1967, 10045
- Stewart Flat quadrangle, Idaho, geology, 11162
- Stewarts disease, *see* Wilt disease.
- Steyskal, George C., flies captured in treetops in Malaya, 5313
- Stichman, Eugene P., transcriber confidence in relation to accuracy of transcription, 5751
- Stiefel, E., regularization for computing orbits in celestial mechanics, 12857
- Stiffeners (aircraft):
- edge-stiffened rectangular plate subjected to boundary loads, etc., plane-stress analysis, 16895
- Stiffler, J. J., telecommunications, 6731



- Stiffness, matrix solution for shells of revolution possessing variable thickness heat protection, 11514
- Still-birth:**  
fetal death registration—  
funeral directors' handbook, 17142  
hospital handbook, 11737  
medical examiners' and coroners' handbook, 15695  
physicians' handbook, 13088
- Stilling basins:**  
Howard Hanson Dam, Green River, Wash., hydraulic model investigation, 2201  
lower Monumental Dam, Snake River, Wash., hydraulic model investigation, 10949
- Stimulants:**  
bibliography, fact sheet, 14073  
fact sheet, 12558
- Stimulus, unilateral caloric stimulation of labyrinth, auto- and cross-correlation of following, 71**
- Stings (aircraft):**  
support interference on aerodynamic characteristics of cargo-type models, 12938
- Stipends:**  
mental health trainee stipends, institutions offering, 11760  
psychiatric-mental health trainee stipends for nurses, availability, etc., 10058
- Stipp, Henry E.:**  
mineral industry of—  
Angola, Mozambique, and Portuguese Guinea, 9758  
Basutoland, Bechuanaland and Swaziland, 11357  
Congo (Leopoldville), 12800  
Gabon, 8348  
Guinea, 8354  
Ivory Coast, 8354  
Sierra Leone, 2564  
Sudan, 8365  
Tunisia, 6668
- Stivers, Louis S. jr., optimum body shapes at hypersonic speeds, 18024**
- Stock catalogs, see Catalogs—Government supplies.**
- Stock exchanges, transactions, statistical series releases, SEC, 3901**
- Stock ranges, see Range lands.**
- Stocker, Joseph, se habla espanol, help for Spanish speaking youngsters, 13964**
- Stockholders:**  
bank stock ownership and control, staff report, 4528  
print additional copies, report, 13654  
personal liability on land bank loans, report, 15130
- Stockholm, Sweden, U.S. trade center, 12654**
- Stockpiling, see Strategic materials.**
- Stocks:**  
bonus plans, income tax, laws and regulations, 9596  
registered on national securities exchange list, 11051  
United States Army in Europe, availability for requirements of other commands Army Dept., GAO review, 8140  
*see also Securities.*
- Stockyards:**  
packers and stockyards act—  
amend, hearings, 13691  
applicable to auction markets, 15870  
recordkeeping for livestock dealers, 44  
what it is, how it operates, 15866  
packers and stockyards resume, 3672, 13042
- Stoekeler, Joseph H.:**  
seedbed density affects size of 3-0 green ash nursery stock, 14095  
wetland road crossings, drainage problems and timber damage, 14097
- STOL (short takeoff and landing), see Aircraft—Airplanes.**
- Stomatology, Rumanian national congress, proceedings, 12732**
- Stomatopoda, see Crustaceans.**
- Stone, Alao, new species of diptera from Dominica, 6962**
- Stone, Hubert L., cardiac output, etc., of miniature swine, 4186**
- Stone, James R., pressure drop and heat transfer for water boiling in single-tube heat exchanger, 14463**
- Stone, minerals yearbook chapter, 5134**
- Stonemason, see Masons.**
- Stoner, John E., interlocal governmental cooperation, study of 5 States, 13942**
- Stoop, J., effect of nitrogen on tensile and creep-rupture properties of niobium, 10000**
- STOP, computer program for supersonic transport trajectory optimization, 11415**
- STOPS (shipboard toxicological operational protective system):**  
BW decontamination with hypochlorite, application, exploratory studies, 10012
- Storage:**  
Army technical manual, change, 7402  
industrial plant equipment, quality assurance program, 13912  
open areas—  
flexible pavement design, emergency construction, Army technical manual, 10277  
military installations, emergency construction, general provisions and geometric design, technical manual, 5742  
pumped, for hydroelectric power, bibliography, 14707  
radioactive wastes, solidification and long-term storage, symposium, proceedings, 5767  
storing vegetables and fruits in basements, cellars, outbuildings, and pits, 5631  
technical manual, 115, 14803  
*see also names or classes of articles stored.*
- Storage batteries:**  
hermetically sealed nickel-cadmium cells protected from internal gas pressure, 6846  
lead-acid cell—  
operation, refractometric sensing of  $H_2SO_4$  specific gravity, 18112  
plate materials, anodic oxidation of  $PbSO_4$ , etc., 11672  
tubular type battery plates micrography, 8591
- Storage in major power reservoirs in Columbia River basin, 3907**
- Stores:**  
department stores—  
credit, monthly report, 3200  
inventory price indexes, 6614, 16823  
leased departments, census of business, 1963, retail trade, 5816  
sales—  
by departments, monthly report, 3572  
selected areas, monthly report, 3573  
selected cities and areas, monthly report, 3574  
selected cities and areas, weekly percentage changes, 4057  
food, voluntary and cooperative food chains, bibliography, 10077  
Government bookstores, locations in Washington, D.C., area, 5412  
grocery department operations, commissary stores, technical manual, change, 7396  
location, bibliography, 1600  
retail—  
advertising, bibliography, 5494  
food, packaging and price marking meat and poultry, systems and equipment, 7276  
food stores, bibliography, 7112  
grocery store companies, mergers and acquisitions, 2172  
hardware, bibliography, 7113  
sales, current reports, 3172  
annual statistics, 17439

## Stores—Continued

- small—
  - planning for growth, 2857
  - recordkeeping systems, bibliography, 2856
- Storey, C. L., comparative study of methods of distributing methyl bromide in flat storages of wheat, gravity-penetration, single-pass, and closed-recirculation, 15861
- Storms:
  - coastal warning facilities charts—
    - Canadian border to Eureka, Calif. and Alaska, 14717
    - Cape Hatteras, N.C. to Brunswick, Ga., 14718
    - eastern Florida, 8790
    - Eastport, Maine to Montauk Point, N.Y., 14719
    - Eureka to Point Conception, Calif., 11901
    - Hawaiian Islands, 11902
    - Manasquan, N.J. to Cape Hatteras, N.C. and Chesapeake Bay, 14720
    - Montauk Point, N.Y. to Manasquan, N.J., 14721
    - Morgan City, La. to Brownsville, Tex., 11903
    - Point Conception, Calif. to Mexican border, 11904
    - Puerto Rico and Virgin Islands, 11905
  - Colorado, hydrologic performance of flood-water retarding structures, 14651
  - data, monthly, 3908
  - severe-storm forecasting procedures of Military Weather Warning Center, analysis, notes, 17339
  - small craft, gale and whole gale warning facilities chart, Great Lakes—
    - Huron, Erie, and Ontario, 14723
    - Superior and Michigan, 14724
  - tropical, Gulf Coast, frequency distribution of rainfall (paper), 5593
  - winter storms, general information, 17739
  - see also Hurricanes—Magnetic storms—Snowstorms—Thunderstorms.
- Story of cotton, 15858
- Stotelmeyer, R. B., mineral industry of South Dakota, 5120
- Stough, Ada B., rural county cares for its aging, 4082
- Stowage, metal tube can be folded for compact stowage, is self-erecting, 1452
- Stowe, Agnes C., relief, 7659, 10478, 10707
- Strachan, John R., appointment as Postmaster of New York, swearing-in ceremony (remarks), 14610
- Strain gages:
  - circuity provides fatigue testing machine with accurate cycle count, 11391
  - pressure transducers, life cycling test, 18083
  - spiral spring/strain gage combination accurately measures shock induced deflection, 1468
- Strains and stresses:
  - aluminum alloys, treatment increases stress-corrosion resistance, 6760
  - bending of circular plates confining incompressible liquid, 97
  - biaxially stressed D-43 alloy with refluxing, potassium, compatibility, 11422
  - biaxial stresses in cylinders produced by single-source mechanical loading system, 17990
  - buckling—
    - load of truncated conical shells, influence of prebuckling deformation, 5187
    - pressurized toroidal ring under uniform, external loading, 15570
    - prestressed shells of revolution, 6878
    - sandwich and ring-stiffened 120° conical shells subjected to external pressure, effect of edge constraint, 11417
  - burst-prone coal pillars, stress distributions, 12824

## Strains and stresses—Continued

- cellular structures as load-bearing structural elements, Hungarian study, 4956
- composite structures, analyses, 2602
- controlled release device prevents damage from dynamic stresses, 6790
- copper alloys, failure under microimpact action, rules governing, 12714
- crackline-loaded edge-crack specimens, stress intensity factors, 6869
- cumulative fatigue, application of double linear damage rule, 9875
- cylinders, thin walled, radial displacements, 17947
- deep mine stress determinations using flat-jack and borehole deformation methods, 6676
- destructive sectioning of complex structures for examination, 6833
- discrete-element methods for plastic analysis of structures, 17933
- dislocation structures in slightly strained tungsten and alloys, 14486
- duality between problems of stretching and bending of plates, 5186
- edge loadings on vibration of rectangular plates with various boundary conditions, errata, 12919
- effect of explosions on snow structures, 99
- elastic structures, analog circuits, 5169
- ellipsoid stress determination in rock-burst prone area at 4,000 foot depth, Galena mine, Wallace, Idaho, 14351
- embedment stresses in electronic modules, use of transducer to measure, 17978
- empirical equation relating fatigue limit and mean stress, 9878
- epoxy resins, microparticle and fiber reinforcement, 5352
- fatigue—
  - aircraft structures, 17062
  - behavior of simulated wing structure under environment of supersonic transport, 16905
  - crack growth in Ti-8Al-1Mo-1V (duplex-annealed) specimens having various widths, investigation, 8494
  - cryogenic, data developed for Inconel 718, 8472
  - equipment and techniques for complex loading, 5748
  - gears with integral teeth, high energy rate system evaluation, 8898
  - initial load and exposure to moderately elevated temperature effect on room-temperature fatigue life of Ti-8Al-1Mo-1V titanium-alloy sheet, 14464
  - life, and bearing torque studies with several lubricants, 11509
  - life under random loading for power spectral shapes, 17013
  - low cycle, of notched specimens by consideration of crack initiation and propagation, 12921
  - rolling element fatigue life of SAE 52100 steel hollow balls, 6879
  - stainless steel, type 316, and Inconel X, high temperature vacuum fatigue testing with resonance-type machine, 11676
  - zones in metals identified by polarized light photography, 9846
- Isotopic X-ray sources for portable stress analysis equipment, feasibility, 14809
- jacketed cryogenic piping in stress relieved, 15553
- laboratory stress-deformation characteristics of soils under static loading, 2596
- metallic materials and elements for aerospace vehicle structures, military handbook, 7860, 9370
- photosensitive filler minimize internal stresses in epoxy resins, 14429
- plane elasticity, integral equation method, 9819

Strains and stresses—Continued

plane-stress—  
analysis of edge-stiffened rectangular plate subjected to loads, etc., 16895  
elastic-plastic states in vicinity of crack tips, 9816  
plastic buckling of axially compressed eccentrically stiffened cylinders, 5249  
plastic constraint ahead of sharp crack under plane-strain conditions, 7108  
post-stressed concrete foundation may reduce machinery vibration, 15489  
residual strains and displacements within plastic zone ahead of a crack, 5489  
results from full-scale measurements of midship bending stresses on 2 dry-cargo ships, 10076  
rock outcrops near Atlanta, Ga., 1409  
rock stress determinations, anisotropic considerations, 12818  
rotor air loads, blade motion and stress caused by transient inputs of shaft torque as related to stoppable rotor operation, 13308  
strain gage circuitry provides fatigue testing machine with accurate cycle count, 11391  
stress and wave patterns in soils subjected to dynamic loads, 10255  
stress calculator speedily converts data, 12908  
stress-corrosion cracking of Ti-6Al-4V alloy in methanol, 6900  
stress corrosion cracks in titanium alloys revealed by chemical milling solution, 16957  
stress distribution near explosively expanded rock bolt anchors, 5126  
stress distributions in vicinity of simulated crack, photoelasto-plastic method to study, 8406  
stress in rock, 3-component borehole deformation gage for determining, 15481  
stress rupture and creep properties of tungsten-fiber-reinforced copper composites, 17002  
stresses and displacements surrounding open pit in gravity-loaded rock, 14356  
stresses at tip of longitudinal crack in plate strip, 14498  
structural efficiency of ring-stiffened corrugated cylinders in axial compression, 14470  
structural optimization with probability of failure constraint, 5252  
structural vibrations, interaction with sound fields, 9835  
structures and power sources, surface-to-air missile series, engineering design handbook, 15928  
tensile and creep-rupture properties of niobium, nitrogen effect, 10000  
tensile strength—  
discontinuous-fiber composites, metallurgical and geometrical factors affecting, 8498, 14451  
effect on current-carrying capacity of commercial superconductors, 2719  
horizontal machine for testing structural wood elements in tension, 8062  
microvoids in glass-filament-wound structures, measurement, minimization, and correlation with interlaminar shear strength, 11677  
tensile yield strength using least number of specimens, simplified method measures changes, 16879  
thermal bending plus twist of thin-walled cylinder of open section with application to gravity gradient booms, 15561  
titanium alloys, salt water stress-corrosion, cracking characteristics, 17091  
titanium, degreasing to minimize stress corrosion, 11476  
titanium tanks, glass bead shot peening retards stress corrosion failure, 14413

Strains and stresses—Continued

torsion-effusion technique to investigate thermodynamic properties of alloys, 17923  
weak turbulence and heat transfer with uniform normal strain, 5254  
Strand, Edwin G., commercial cotton farms, 986  
STRATCOM, see Army Strategic Communications Command.  
Strategic materials:  
defense materials systems—  
and priorities, questions and answers, 7452  
monograph, Industrial College of Armed Forces, 9608  
disposal of battery grade synthetic manganese dioxide from national stockpile—  
law, 439  
reports, 684, 921  
disposal of bismuth from national and supplemental stockpiles, report, 14938  
disposal of fused crude aluminum oxide from national and supplemental stockpiles—  
law, 437  
reports, 685, 922  
disposal of industrial diamond stones from national and supplemental stockpiles—  
law, 436  
reports, 683, 920  
disposal of molybdenum from national stockpile, report, 14936  
disposal of nickel from national stockpile—  
hearings, 722, 7738, 10808  
law, 453  
reports, 687, 936, 9117  
disposal of rare-earth materials from national and supplemental stockpiles, report, 14937  
Federal stockpile inventories, report, 2986  
mobilization programs of—  
Business and Defense Services Administration, hearing, 13543  
General Service Administration, hearing, 12186  
Interior Department, hearing, 14916  
stockpile contracts for diamonds, balance-of-payments aspects, GAO report, 15293  
stockpile program, relationship to domestic mining industry, hearings, 2051  
stockpile reports, 4725, 9416  
transfer of silver by Treasury to national stockpile—  
law, 12171  
reports, 10602, 10765, 12248  
Strategy, see Military art and science.  
Strategy for livable environment, 12622  
Stratification:  
density, and water masses, western north Atlantic Ocean, atlas, 11629  
elimination at Lake Cachuma, Calif., progress report, 11183  
Stratigraphy:  
bedded barite in East Northumberland Canyon, Nye County, Nev., 16689  
Cambrian and Ordovician rocks of east-central Alaska, 6404  
Chariot site vicinity, Lisburne Peninsula, northwestern Alaska, 8162  
contributions to stratigraphy (series), 1112-13, 2361, 6393-95, 11168, 12602, 14169, 17820  
Cretaceous and lower Tertiary, in west-central Puerto Rico, 17820  
Gulf Series, subsurface in northern Florida and southern Georgia, 16692  
Independence quadrangle, Inyo County, Calif., Paleozoic formations, 2364  
Keku Islets and neighboring parts of Kulu and Kupreanof Islands, southeastern Alaska, 12600

# INDEX 1967

## Stratigraphy—Continued

lower Paleozoic paleontology and stratigraphy of east-central Alaska (series), 6404

Middle Ordovician brachiopods and trilobites from basin ranges, western U.S., 11174

stratigraphic analysis of deep ice core from Greenland, 13290

tertiary biostratigraphy of Cook Inlet region, Alaska (series), 2365

Upper Silurian and Lower Devonian strata of northeastern Pennsylvania, New Jersey, and southeasternmost New York, 11167

Stratosphere, upper, temperature, pressure, density, and wind measurements, 17012

Straw, baled, sampling tool to extract cores, 13201

## Strawberries:

California, air transport factors affecting market quality, 1966 spring shipments, 1704

culture, south Atlantic, etc., regions, 1685

fresh market, acreage, production, etc., 1959-65 revised estimates, 14762

insects, control, 10167

varieties in U.S., general information, 17309

Streams, see Rivers.

Streets, District of Columbia, use of air-spaces, in, on, over, and under, hearings, 16407, 17598

see also Roads and highways.

Strength of a sparrow (address), 16512

Strength of materials, scientific bases, 1965, USSR research, 2453

see also names of materials and articles.

Strengthening community services in low-income neighborhoods, 17840

Streptomyces. Streptomyces griseus (Krausky) Waksman and Henrici, taxonomic study of some strains, 54

## Stress (physiology):

dynamic stress testing, biomedical monitoring—

Flack test, 7360

instrumentation and normal values, 7343

Levy hypoxia test, 7344

maximum exercise tolerances, ergometer, 7361

tilt table orthostatic tolerance test, 7362

Stress (psychological), see Tension.

Stresses (mechanical), see Strains and stresses.

Stretchers, orthopedic, with average-sized person can pass through 18-inch opening, 5222

## Strikes and lockouts:

airline dispute, providing for settlement, hearings, 959

Federal legislation to end, documentary history, 10861

operation bygrade, anatomy of shutdown, 13972

## railway disputes—

extend period for no change under sec. 10 of railway labor act—

laws, 9040, 10482

reports, 9112, 9279, 10567

negotiations to ward off strike, etc.—

message from the President, 9074

status, hearing, 9328

## settlement—

hearings, 10660, 10868

law, 13534

reports, 12259, 12267, 12364, 13667

summary of situation, etc., message from the President, 10514

## work stoppages—

analysis, 5060

U.S. missile sites, 5403, 18141

final tabulations, 14307

Government employees, 14308

monthly, 4070

Stringfield, V. T., artesian water in Tertiary limestone in Southeastern States, 6399

Strip-mined lands, see Reclamation of land.

Strip mines, see Coal lands.

Striped bass, see Bass.

Strips (metal, etc.):

calibrating ultrasonic test equipment for

checking thin metal strip stock, 12832

strip chart recorder time notation, technique, 12912

Strishkov, V. V., mineral industry of U.S.S.R., 15470

Strobridge, Truman R., brief history of 9th Marines, 17904

## Strokes:

cerebrovascular disorders, 18176

characteristics of clients rehabilitated, 7221

epidemiology, study, 11726

regional medical programs, guidelines, 13076

Strom, Thomas N., wear and friction of impregnated mechanical carbons, 9915

Strommen, Norton D., climates of States, Michigan, 16530

Strong, D. R., pressure fluctuations on flat plate with oblique jet impingement, 14388

Strontium fluoride, ionic conductivity, 6866

Strontium isotopes:

Sr-85, distribution in freshwater ponds, 15681

Sr-90—

determination in water, 6410

Quehanna pilot plant first generation process operations, 5777

Stroud, C. W., heating rates from thick-calorimeter data, 8486

Stroud, Lowell, isotopic abundance of neon, etc., in natural gases rel. to helium genesis, 9785

Stroud, Raymond B., mineral industry of Arkansas, 6644

Struble, George R., mountain pine beetle, 17793

Structural adhesives, see Adhesives.

Structural analysis and matrix interpretive system (SAMIS), 12899

Structural designs, see Architecture—Designs (Industrial)—Materials.

Structural models, see Models (structural).

Structural optimization with probability of failure constraint, 5252

Structural steel, see Steel.

Structural unemployment, see Unemployed.

Structures, see Buildings—Earthwork and structures—Strains and stresses.

Strunk, Hazel L. S., relief, 578

## Struts (aircraft):

combustion chamber struts can be effectively transpiration cooled, 6805

Strymonini, see Butterflies.

Stuart, A. H., United States trade in jewel bearings, etc., 12030

Stuart, Wilbur T., Swatara Creek basin of southeastern Pennsylvania, evaluation of its hydrologic system, 16703

Stuart, Fla., motor carrier accident, 17917

Stubbs, Sandy M.:

landing characteristics of dynamic model of HL-10 manned lifting entry vehicle

2685

water pressures and accelerations encountered during landings of Apollo spacecraft, 16970

Student or classroom science project series, 4135-37

Student reference, Department of Labor safety training programs, SR LS series, 6602, 9731-32

Student Work Experience and Training, program sponsored by Mental Retardation Branch, Public Health Service, 7060

## Students:

advance training in Peace Corps, program for college juniors, 5373

career opportunities in SCS, 1705

Students—Continued

certification requirements for school pupil personnel workers, 9396  
college—  
aids, loans, grants, etc., 2177  
career opportunities in Public Health Service through Commissioned Officer Student Training and Extern Program, 10043  
how Education Office assists, 4712  
college, work study program, amend law—  
law, 17536  
reports, 14952, 14959, 15125  
correspondence exchange on Viet-Nam, 7143  
educational scholarships, loans, and financial aids, 1  
employment, full-time, at special minimum wages, 7229, 18251  
entering U.S. from developing countries, authorize study of failure to return home, law, 412  
faculty listens to students' evaluation of Lake Oswego High School, 17726  
financial aid for postsecondary education through establishment of Educational Opportunity Bank, panel report, 15663  
foreign, in United States, national survey, 5613  
full-time, ages 18–21, amend railroad retirement act to provide survivor benefits, law, 414  
graduate students—  
academic & financial status, 17715  
aids, loans, grants, etc., 2177  
in Peace Corps, 5376  
grouping as related to learning, survey of research, 4721  
high school, national ability counts contest, 1968, announcement, 15667  
higher education act of 1965—  
administration of programs, 1966, notes and working papers, 12422  
student loan program, 6% payment tables and amortization schedules, 7910  
Lincoln Center's student program opens new world to teenagers, 12465  
loans—  
health professions, program 5435, 17149  
increase credit life, health, or accident amounts allowable in D.C., report, 882  
national defense education act, college work-study program and list of participating institutions, 1001  
program for medical, osteopathic, dental, etc., and nursing students, law, 463  
program, nursing student, information, 11747  
Negro, enrollment in Southern and border States, 4711  
occupational therapy, four educational opportunities, 8899  
postgraduate students at Voronezh State University, living and study conditions, 4954  
public elementary and secondary day schools, statistics, 7896  
social security benefits for students 18–22, cash, 5512  
student composers take over, sonata for 2 clarinets, 7911  
student manual, SM series, 1905, 7528, 13427–432, 14846, 16056–57  
summer jobs and how to find them, 10947  
undergraduate training grants awarded by National Institute of Mental Health, 7066  
vacation work-study positions, examination announcement, 214  
vacation work-study programs in engineering and physical sciences, examination announcement, 17460  
vocational, aids, loans, grants, etc., 2177

Students—Continued

vocational student loan insurance act of 1965—  
amend, hearings, 15026  
eligible institutions, list, 2181  
supplement, 6181  
6% payment tables and amortization schedules, 7910  
see also Reserve Officers Training Corps, Army.  
Studies (North Vietnam periodical):  
translation, 3945  
Studs, see Lumber.  
Studd, Elliot, reentry of offender into community, 8791  
Study, see Curriculum.  
Stump sprouting of 4 northern hardwoods, 8111  
Stumpage, see Timber.  
Sturas, Jonas, I., photographic study of mercury droplet parameters including effects of gravity, 1509  
Sturm, Herman M., technology and manpower in health service industry, 11297  
Sturm, Thomas A., USAF Scientific Advisory Board, its first 20 years, 11969  
Sturman, John C., improved micropower logic circuits, 14461  
Stutts, Jesse W., Jr., relief, 608, 13587, 17498  
Stuve, John M., heats of formation of ytterbium and thulium trichlorides, 6683  
Stygones, see Amphipods.  
Style manual:  
Government Printing Office—  
abridged edition, 11193  
revised edition, 9577  
Styles, Kathleen, relief, 792, 10708  
Suarez, Pablo A., relief, 9210  
Suarez, Rafael F., relief, 10542, 13512, 13760  
Suarez-Diaz, Jose C., relief, 10709  
Sunrez Tejon, Virginia, see Tejon, Virginia S.  
Subalpine fir, see Fir.  
Subarctic regions:  
emergency construction, surface drainage design for airfields and heliports, 7395  
temperature inversions survey, 4200  
Subcontracts, see Government contracts.  
Subgravity, see Gravity.  
Subin, Harry L., criminal justice in metropolitan court, 1348  
Subject headings:  
agricultural/biological vocabulary—  
alphabetical list, 17026  
categorized list, 17025  
Atomic Energy Commission, nuclear science abstracts—  
indexes, 128  
subject scope, 7427  
Library of Congress, 3910  
medical, 3407  
cumulated, 6940  
technical thesaurus, manual for building, 4677  
water resources thesaurus, 2398  
Sublimation:  
method for preservation of foodstuffs, USSR study, 12665  
subliming solid control rocket—  
phase 1, 8412  
phase 2, development, 8413  
Submarine boats:  
engineering administration, training aid, 11664  
nuclear powered—  
atmosphere purification and control, status of chemical research, 17084  
propulsion equipment, procurement under Public law 87–653, by Navy Dept., GAO report, 16674  
safety measures for paint, fire-retardant undercoat influence on burning characteristics of combustible topcoat, 13036  
Thresher, civilians who lost their lives, furnish memorial headstones or markers, hearing, 715

# INDEX 1967

- Submarine cables :
  - composition and laying, USSR study, 15372
  - underwater cable design, USSR study, 15387
- Submarine crew, blood clotting studies, serial analysis of clotting mechanism during prolonged submergence, 12790
- Submarine geology, Alaska research studies, engineering seismology, 12117
- Submarine Medical Center, *see* Naval Submarine Medical Center.
- Submarine Medical Research Laboratory, color vision test, Farnsworth Lantern, 1955-65 performance record, 16845
- Submarine medicine, *see* Medicine.
- Submarine mountains, *see* Seamounts.
- Submarine warfare, undersea warfare laboratory, Los Alamitos, Calif., proposal, subcommittee report and hearings, 13698
- Submariners, acuity and phoria among, longitudinal study, 12791
- Submarine, *see* Submarine boats.
- Subminiature deflection circuit operates integrated sweep circuits in TV camera, 11479
- Subsidies :
  - air transportation industry (talk), 7519
  - large family-rent subsidy demonstration program, report, 5295
  - see also* names of commodities, industries, etc.
- Subsistence :
  - Federal item identification guides for supply cataloging, supplements, 3290
  - special commodity quality assurance information handbook, 10887
- Substrates :
  - gage accurately controls force for placing chips on substrates, 6832
  - mechanism, protection of enolase and lactic dehydrogenase against ionizing radiation, studies, 14774
  - oxide film on metal substrate reduced to form metal-oxide-metal layer structure, 12841
- Suburban and farm vegetable gardens, 8831
- Suburbanites, publications, list, 8206
- Suburbs :
  - busing school kids to suburbs, 10928
  - land-use crisis in suburbia, picture story, 11939
- Subversive activities, *see* Un-American activities.
- Subversive Activities Control Board :
  - annual report, 5562
  - appropriations, 1967, law, 501
  - appropriations, 1968-
    - hearings, 10632, 16390
    - reports, 10616, 16372
  - registration of Communist organizations, etc., amend law, report, 16290
  - reports, index-digest, 5563
- Success [for Negro Americans in field of employment], 13223
- Succotash, canned, U.S. standards for grades, 13892
- Suchecka, Zofia, *see* Soliwoda, Sophia.
- Sudan :
  - agricultural commodities, agreement, 2889
  - capsule facts for Armed Forces, 13283
  - labor conditions, 2516
  - mineral industry, minerals yearbook chapter, 8365
- Suddath, Jerrold H., linearized error analysis of onboard primary navigation systems for Apollo lunar module, 15556
- Suez Canal, sailing directions, 9971
- Suffix codes for jobs defined in dictionary of occupational titles, 3d edition, 9417, 10946
- Suffolk County, Mass., Norwood quadrangle, geology, 6389
- Suffren (frigate) :
  - French, propulsion and power production, 9670
- Sugar :
  - act of 1948, as amended, 1967 wage requirements, 8844
  - Spanish edition, 8845
  - classification definitions, 18123
  - determinations of wage rates, prices, acreage credit, etc., 3911
  - foreign agriculture circulars, 3345
  - international agreement of 1958, protocol, prolongation, text, 2885, 9186
  - monosaccharides, etc., occurrence, preparation, and properties, 18081
  - payments and quotas, statutes, compilation, 7262
  - requirements and quotas, 3912
  - sugar reports, monthly, 3913
  - U.S. program, including sugar act amendments of 1965, 5621
- Sugar pine, *see* Pine.
- Sugarcane, area of Louisiana, alluvial soil, deep-tillage investigations, 1672
- Sugluchi, Howard, study of vibration of concrete, 13985
- Sugiura, Masahisa, provisionally hourly values of equatorial Dst (storm time variation), 14459
- Suicide :
  - bulletin of suicidology, 14617
  - tragedy of suicide in U.S. (talk), 8655
  - United States, 1950-64, study of statistics showing trends, etc., 17171
- Sulfates, *see* Lithium sulfate.
- Sulphydryls, dog plasma sulphydryl groups, effect of oxygen, 5712
- Sulfides :
  - cyclic, synthesis, 12823
  - massive deposits of Appalachians, 15310
- Sulfonates :
  - oil, solubilizing effect of cation and applicability of mass law, 17095
  - polystyrenesulfonate model membranes, polymer structure and ionic transport, 9592
- Sulfur :
  - carbon disulfide bench-scale production, 5127
  - compound characterization studies on high-boiling petroleum fractions, 2583
  - foam, low density, preparation of, 17379
  - minerals yearbook chapter, 6692
  - native and recovered, mineral industry survey, monthly, 3914
  - production, etc., 1966, preliminary, 5135
- Sulfur dioxide, removing from hot flue gases, process development, 12831
- Sulfur oxides, air quality criteria, 11715
- Sulfuric acid :
  - current industrial reports, 4342, 13396
  - specific gravity, refractometric sensing in lead-acid cell operation, 18112
- Sulky project, *see* Project Sulky (plow-share program).
- Sullivan, David, labor's role in war on poverty, 11299
- Sullivan, John B., childbearing and diabetes mellitus, 1960-62, United States, 5469
- Sullivan, Robert E., Monte Carlo program for calculation of Doppler coefficients, 18030
- Sullivan, Timothy L. :
  - continuity gage measurement of crack growth on flat and curved surfaces at cryogenic temperatures, 2721
  - uniaxial and biaxial fracture toughness of titanium alloy sheet, 11552
- Sumatra, sailing directions, change, 14576
- Summer, L., coating implements with material supply, classification definitions, 18134
- Summer education for children of poverty, 4720
- Summer jobs for students and how to find them, 10947
- Summer jobs in Federal agencies, 1928
- Summer schools, *see* Schools.
- Summers, R. L., experimental evaluation of techniques for improving fallout protection in home basements, 5765



- Summersville Dam, construction bids, quantity estimates prepared for solicitation, GAO review, 14152
- Sun, Fang T., optimum transfer between 2 terminal points for minimum initial impulse under arbitrary initial velocity vector, 1427
- Sun:
- anatomy of the sun, 14370
  - coronal photographs, isophotes, and flash spectrum from eclipse, 11531
  - ephemeris, 17902
  - low-thrust orbit raising in continuous sunlight while thrusting in plane perpendicular to earth-sun line, 15567
  - solar activity and life processes, USSR study, 1213
  - solar-geophysical data (periodical), 10969
  - solar orbit, unguided solid fuel rocket vehicle, feasibility, parametric design, and analysis, 12853
  - solar X-ray spectrum reproduced in vacuum, 12895
  - see also headings beginning Solar.
- Sundahl, William E., slash and litter weight after clearcut logging in 2 young-growth timber stands, 8087
- Sunoyide Seed Farms, relief, 358, 619
- Sunset Cliffs:
- Sun Diego, Calif., beach erosion study, engineer report—
  - departmental edition, 1029
  - document edition, 521
- Sunset Crater National Monument, general information, 8563
- Superconductivity:
- mechanisms, investigated by nuclear radiation, 9830
  - niobium, ultrasonic attenuation, 5273
  - simple technique determines ac properties of hard superconductive materials, 6817
  - torus in nonaxial uniform magnetic field, potential and magnetic moment, 9986
- Superconductors:
- commercial, effect of tensile stress on current-carrying capacity, 2719
  - performance of superconducting magnets, effect of mechanical vibrations, 11511
- Supergrade positions, see Civil service.
- Superheaters:
- BONUS, boiling nuclear superheater power station final hazards summary report, 5784
  - nuclear reactor, corrosion resistance of stainless steel and nickel alloys, 9797
  - nuclear superheat project, final report, 5773
- Superheterodyne receivers, see Receivers (radio).
- Superintendent of large public school systems, 6197
- Superior, Lake:
- iron resonances, 6678, 14346
  - small craft, gale and whole gale warning facilities chart, 14724
- Superphosphates, see Phosphates.
- Supersonic aerodynamics, see Aerodynamics.
- Supersonic aircraft, see Aircraft.
- Supersonic airplanes, see Airplanes.
- Supersonic flow, see Flow.
- Supersonic inlets, see Air inlets (aircraft).
- Supervisors:
- don't guess! ask your security supervisor, poster, 13927
  - supervisory responsibility for safety, 9717, 16808
- Supplemental appropriations and estimates, see Appropriations.
- Supplementary Medical Insurance Trust Fund, see Board of Trustees of Federal Supplementary Medical Insurance Trust Fund.
- Supplies, see Agricultural supplies—Dental supplies—Government supplies—Hospital apparatus and supplies—Medical supplies—Military supplies.
- Supply and demand:
- demand and price situation, 3197
  - forest products, 5660
  - farm products, Saudi Arabia, projections to 1975 with implications for U.S. exports, 7886
  - long term forecasts of agricultural and livestock products in Venezuela, summary and evaluation, 12456
  - Supply catalogs, see Federal supply catalogs.
  - Supply Corps, Navy, see Navy Supply Corps.
  - Supply management and control over expendable supplies and materials, Architect of Capitol, GAO review, 14161, 15057
  - Supplying the Navy, 13029
  - Support service contracts, hearing, 16330
  - Supports, sting-support interference on aerodynamic characteristics of airplane models, 12938
  - Suppressors (electric):
    - basic suppression techniques, evaluated, 1451
- Supreme Court:
- Associate Justice, nomination of Thurgood Marshall—
  - hearings, 13876
  - report, 15062
  - cases adjudged—
    - Court of Claims cases, 970, 2142, 4663-64, 7840, 12436, 16453, 17686
    - official reports, 3652
    - United States reports, 1645, 2941, 7201
- journal, 3924
- manuscript and revised printed opinions in National Archives, index, 14512
- uniform civil appellate rules for courts of appeals, power to prescribe, law, 477
- upsets tradition by recent decisions, 6052
- Surface active agents:
- influence on properties of air bubbles at air/sea interface, 17088
  - liquid structure, effect on contact angle hysteresis, 9987
  - viscosity of polydimethylsiloxane monolayers, 8592
- Surface mining, see Mines and mining.
- Surface motion measurements, see Surfaces.
- Surface tension:
- critical, for spreading on liquid substrate, 10006
  - effect of adsorbed water upon spreading of organic liquids on soda-lime glass, 18110
- Surface water, see Water.
- Surfaces:
- areas, radioactive method, determines, 6702
  - chemical analysis by using alpha particle backscattering measurements, 12840
  - complex, plated by thin-film deposition in one operation, 8447
  - coplanarity, measuring, 17982
  - curved, free jet impingement in vacuum, 9897
  - flat and curved, crack growth at cryogenic temperatures, continuity gage measurement, 2721
  - formed concrete, reducing size and number of voids, methods, 16529
  - liquid, motion in response to lateral acceleration during weightlessness, 12966
  - preparations improve thermionic emission, 2633
  - roughness, statistical technique for dynamic analysis of vehicles traversing rough yielding and non-yielding surfaces, 8407
  - safe working, safety in industry instructor outline, 8294
  - softwood, ultraviolet irradiated and weathered, microscopic observations, 14123
  - surface effects in photodegradation of polymer films, 18113
  - zero, determining depth, USSR study, 4952
- Surgeon General, Army, see Army Medical Service.

# INDEX 1967

- Surgeon General, Public Health Service, *see* Public Health Service.
- Surgery:
- emergency war surgery, NATO handbook, Spanish edition, 9366
  - ovarian cancer, surgical treatment combined with application of radiogold, 5031
  - plastic, of joints, preparation, preservation, and use of bones, USSR study, 15347
- Surgical instruments and apparatus, new stainless steels, USSR study, 6517
- Surgical supplies, hospital central services, manual, 1579
- Surinam:
- economy, basic data, 16103
  - foreign trade regulations, 4441, 12134
  - mineral industry, minerals yearbook chapter, 8306
- Surplus property:
- care and handling functions of excess real and related personal property, GSA to assume, report, 13794
  - defense disposal manual, change, 6146, 7853-54, 9368, 10890
  - excess property, control and use, etc., following U.S. military exclusion from France, hearings, 16327
  - material available for science education, 14186
  - State agencies, directors, directory, 8188 *see also* Personal property.
- Surplus Property Utilization Office, HEW, regional representatives, directory, 8188
- Survey, Stanley S.;
- remarks—
  - Feb. 23, 1967, 7215
  - Mar. 9, 1967, 8769
  - Apr. 29, 1967, 10117
  - May 5, 1967, 10125
  - May 11, 1967, 10123
  - June 20, 1967, 13165
- Surveillance (military):
- teams, use in image interpretation, information exchange, confidence, and resolving disagreements, 5752
- Survey meters, *see* Radiation detection instruments.
- Survey of current business (periodical), 3925
- Surveying:
- aid, examination announcement, discontinuance notice, 7544
  - geodetic, activities within Federal Government, GAO review, 6382
  - publications, price list, 17134
  - seasonal employment information, 2524
- Surveyor Project, *see* Project Surveyor (unmanned lunar exploration).
- Surveyors, surveying technician, examination announcement, 13445
- Surveys, *see* Community surveys—also subjects of surveys.
- Survival:
- Air Force manual, 10209
  - aircrew survival equipmentman (PR) 3 & 2 and (PR) 1 & C, supplement, 11652
  - crash survival, aircraft design guide, 13309
  - differential games, generalized solution, USSR study, 14253
  - family food stockpile, 1697
  - knowledge for survival, Extension's rural civil defense program, 3463
  - personal and family—
  - civil defense adult education course, student manual, 1905
  - survival course, announcement, 16507
  - shelters, sensible and latent heat losses from occupants, 7092
- Survivor insurance, *see* Old-age, survivors, disability and health insurance.
- Survivors, *see* Civil service pensions.
- Survivors' benefits:
- Foreign Service retirement and disability system, increases and adjustments, report, 13795
- Survivors' benefits—Continued
- guide for next of kin of Air Force casualties, personal affairs pamphlet, 13259
  - social security, rights and responsibilities of recipients, 7133
- Survivors insurance, social security rulings, 2872, 3881
- see also* Old-age, survivors, and disability insurance.
- Susceptor cups, tungsten insulated for induction furnace, eliminate contamination, 5211
- Suter, Ann C., labor law and practice in Ethiopia, 5054
- Sutherland, Harrell C., hearing of flying personnel, 17356
- Sutter National Wildlife Refuge, mammals, list, 8030
- Suttles, John T., ballistic reentry trajectories, 12932
- Sutton, Ottilie K., psychology bibliography, 10206
- Suzuki, G., quantitative methods for management, 11591
- Swafford, Bill, soil survey, Garfield County, Okla., 18214
- Swamp fever, *see* Anemia.
- Swamplands:
- acquisition for migratory waterfowl, extend act—
  - hearing, 10665
  - report, 12265
  - wetland road crossings, drainage problems and timber damage, 14097
- Swann, Robert T., effect of composition, etc. on ablative performance of phenolic nylon, 9889
- Swanson, Bruce L., statistics of farmer cooperatives, 12485
- Swanson, Howard E., standard X-ray diffraction powder patterns, 15591
- Swanson, Robert H., low-cost instrument to measure temperature or resistance accurately, 11127
- Swanson, Rowena W., move the information, 14766
- Swanston Equipment Co., relief, 9191
- Swatara Creek, basin of southeastern Pennsylvania, evaluation of hydrologic system, 16703
- Swaziland, *see* South Africa.
- Swearlingen, John J.:
- evaluation of various padding materials for crash protection, 5803
  - injury potentials of light-aircraft instrument panels, 1820
  - potential decompression hazards in small pressurized aircraft, 17414
- SWEAT, *see* Student Work Experience and Training.
- Sweden:
- air transport services, agreement, 8724
  - atomic energy, cooperation for civil uses, agreement, 2910
  - mineral industry, minerals yearbook chapter, 15469
  - selling in Sweden, 4445
  - social security system, 1608
- Sweeney, John W., mineral industry of North Carolina, 5119
- Sweet gum:
- dormant, gibberellin-induced growth, 8093
  - nitrogen fertilization, 3231
  - site index of Delaware-Maryland stands in relation to soil characteristics, 4822
- Sweet potatoes, *see* Sweetpotatoes.
- Sweeteners:
- markets for, 4698
  - noncaloric, their position in sweetener industry, 10916
- Sweetfern blister rust, distribution and hosts, 4823
- Sweetgum, *see* Sweet gum.
- Sweetpotatoes:
- acreage marketing guide, 7828

Sweetpotatoes—Continued  
 acreage, yield, etc., by States and seasonal groups, 13231, 14698  
 insects affecting, 15837  
 planting, harvesting, marketing dates, by seasons, in principal areas, 13211  
 theoretical segregation ratios of qualitatively inherited characters for hexaploid sweetpotato, 5688  
 Sweetwater County, Wyo.:  
 improvements on lands, reimburse Wyoming—  
 law, 12161  
 report, 661  
 Sweetwater River:  
 San Diego County, Calif., engineer report—  
 departmental edition, 15228  
 document edition, 14926  
 Swenson, Lloyd S., Jr., this new ocean, history of Project Mercury, 8438  
 Swardloff, George, feasibility study of use of stannous fluoride mouthwash in school preventive dentistry program, 17352  
 Swick, D. A.:  
 ambiguity function independent of assumptions about bandwidth and carrier frequency, 8538  
 discrete finite Fourier transforms, 15638  
 Swift-Train Co., relief, 13582  
 Swift, Calvin T.:  
 input admittance of—  
 coaxial transmission line opening onto flat, dielectric-covered ground plane, 16993  
 rectangular waveguide-fed aperture antenna radiating into inhomogeneous lossy dielectric slab, 16028  
 Swigert, Paul, Monte Carlo code for solution of planar electron-diode problems including electron-neutral elastic collisions, 15558  
 Swimming:  
 drownproofing can save your life, 1718  
 underwater sports in USSR, 6552  
 Swimming pools and natural bathing places, annotated bibliography, 13096  
 Swine:  
 avian tuberculosis in hogs, costly livestock disease, 14755  
 breeds, 1686  
 feeder, farm building plan, 15865  
 garbage-feeding, national status on control, 3599  
 hog castration, general information, 5637  
 hog inventory and pig crops, 1960-64, by States, revised estimates, 4147  
 miniature, cardiac output, etc., 4186  
 pig crop reports, 5555, 8757, 13157, 17251  
 Swine plague, African, strict prophylactic measures against, Rumanian study, 15398  
 Swing-out rail system separates overhead crane rails, 6704  
 Switchboards, apparatus, current industrial reports, 4343  
 Switches, see Electric switchgear—Electronic switches—Pressure switches.  
 Switching type regulator circuit has increased efficiency, 12910  
 Switzerland:  
 amateur alien radio operators, authorization to operate, agreement, 15776  
 atomic energy, cooperation for civil uses, agreement, 2900  
 background notes, 1620  
 mineral industry, minerals yearbook chapter, 8367  
 Swiss research in acids, 12733  
 Swordfish, longline fishing effort and catch rates in northwestern Atlantic, 1957-65, inventory, 14063  
 Sykes, George F., Jr., decomposition characteristics of char-forming phenolic polymer used for ablative composites, 6862

Symbols:  
 alphanumeric characters, etc., legibility, reference handbook, 6917  
 defense materials system program identification, use in segregating renegotiable and nonrenegotiable subcontracts, 13105  
 display, legibility studies, 63-64  
 identification, for iron and steel, nonferrous metals, and alloy products, Communist China, 6547  
 Leroy and teletypewriter, relative legibility, 64  
 military, field manual, 10261  
 military map, legibility on television, 63  
 Northwest range-plant, list, 14141  
 supplementing text of instruction plates for military vehicles, military standard, 15197  
 Symposia:  
 AEC series, 10297, 12003, 14808, 15959  
 aerospace measurement techniques, 6734  
 biological interpretation of dose from accelerator-produced radiation, proceedings, 15960  
 compartments, pools, and spaces in medical physiology, 15959  
 computer simulation of plasma and many-body problems, 16928  
 cotton-ginning wastes, control and disposal, 7063  
 detonation, proceedings, 13030  
 disposal of radioactive waste, 16747  
 ethnopharmacologic search for psychoactive drugs, proceedings, 17173  
 fly ash utilization, 14329  
 irradiation capsule technology, developments, international symposium, 8903  
 long-range forecasting and planning, Air Force research program, 17340  
 medical ethics and research, 18247  
 neutron noise, waves, and pulse propagation, 12003  
 nuclear science and technology for ceramists, proceedings, 12982  
 nucleolus, structure and function, 7074  
 pneumatic transportation of solids, 2542  
 radiation preservation of foods, 1783  
 research methods and instrumentation, development, 17163  
 research reactors, utilization, 1797  
 Rumanian National Symposium on Genetics, interview concerning meetings, 12703  
 safety of large volume parenteral solutions, 15275  
 science and criminal justice, 11699  
 solidification and long-term storage of highly radioactive wastes, proceedings, 5767  
 Soviet, man-machine systems problem, report, 16753  
 technology and use of lignite, Mines Bureau-University of North Dakota, proceedings, 1398  
 technology and world trade, proceedings, 8520  
 timers for ordnance, proceedings, 104  
 tumors of alimentary tract in Africans, 14632  
 vestibular organs, role in exploration of space, 5191  
 water desalination, proceedings of 1st international, 9587, 11214-215  
 Synapses, brain stem and spinal cord, characteristics and significance in carnivores, USSR study, 12711  
 Synchronization:  
 clocks, remotely located, study, 8422  
 addendum, 14373  
 Tv synchronization system features stability and noise immunity, 13455  
 Synchronous satellites, see Satellites.  
 Sycom, see Satellite.  
 Synoptic catalogs, see Catalogs.  
 Synoptic meteorology, see Meteorology.

# INDEX 1967

- Synthesis:**  
 asynchronous sequential circuits, 1473  
 automatic frequency control systems responding to Doppler frequency shift, USSR study, 16742  
 gas, using recycle system, kinetics, 9790  
 higher order hydrocarbons on hot tungsten filaments, 8504  
 highly halogenated monomers and polymers, 9855  
 infrared horizon radiance profiles from meteorological data inputs of 15 $\mu$  band, 9801  
 Synthesis gas, *see* Gas.  
 Synthetic fibers, *see* Fibers.  
 Synthetic organic chemicals, *see* Organic compounds.  
 Synthetic resins, *see* Resins.  
 Synthetic telephony, USSR, 5010  
 Synthetic woven goods, *see* Textiles.  
 Syphers, Grant E., nomination, hearing, 15153  
 Syphilis, laboratory aspects, 18170  
 Syria:  
 background notes, 18225  
 capsule facts for Armed Forces, 11978  
 Syringes:  
 automated microsyringe, accurate and reliable device, 14415  
 microsyringe design, with micrurgy chamber, allow more efficient micromanipulations, 16882  
 Syrups, *see* Syrups.  
 Systemic lupus erythematosus, *see* Lupus erythematosus.  
 Systems:  
 analysis, pursuit urged, USSR study, 1225  
 automatic, optimal training algorithms in case of nonideal teacher, USSR study, 9619  
 behavioral model of man, 1967, his chains revealed, 14401  
 central digital data acquisition, computer-controlled, 11492  
 communication satellite for transmission of unidirectional (simplex) programs, use, USSR study, 15386  
 DCS equipments/systems performance standardization program, 9360  
 defense systems resources in civil sector, 17371  
 emergency escape, uses self-braking mechanism on fixed cable, 5223  
 fusion welding, maintains constant penetration, 11443  
 high-energy-rate magnetohydraulic metal forming system, 11463  
 high-pressure gases, automatically supplies analytical samples, 11442  
 laser, generate single-frequency light, 16943  
 logic, aids in evaluation of project readiness, 1456  
 reliability of complex technical systems, USSR study, 12743  
 structural analysis and matrix interpretive system (SAMIS), 12899  
 system enables dimensional inspection of very large structures, 14422  
 system identification and pattern recognition, 9810  
 telemetry, numerical data frame readout system used in testing, 12901  
 theory of large systems, USSR study, 12709  
*see also* names or types of systems, e.g. Osmosis.  
 Systole, *see* Heart.  
 Szalal, Kenneth J., influence of response feedback loops on lateral-directional dynamics of variable-stability transport aircraft, 11516  
 Szaniszló, Andrew J., simulation of liquid-hydrogen turbine-type flowmeter calibrations, etc., 5251  
 Szepeles, Zoltan, solid state image intensifiers, 5343  
 Szostak, Henryk, effect of explosions on snow structures, 99
- T**
- T.I.D.E. [Testing, Information, Discussing, and Evaluating]:  
 diary of counselor, 1966, summer, 7923  
 promising demonstration project, 7923  
 T.V.A., *see* Tennessee Valley Authority.  
 TAB, *see* Technical abstract bulletin.  
 Tabio, Pablo E., relief, 10710, 16188  
 Tables (compilation), *see* technical, scientific, and economic subjects.  
 Tables (mathematics), *see* Mathematics.  
 Tables (furniture):  
 wood, executive office, Federal standard, cancellation, 6311  
 Tables (medicine):  
 Federal standard, 4794  
 Tableware:  
 stainless steel flatware, Tariff Commission reports, 1646, 17255  
 White House china of Lincoln administration, 15600  
 Tubular line-of-balance production control technique, 7433  
 Tabulation:  
 process, Atlantida, case study in household sample surveys, 7497  
 tabulating equipment, card processing operations, standard time values, work measurement, 184  
 Tachocardiography, pediatrics application, 12748  
 Taconite, nonmagnetic, occurrences in Hibbing, Minn. area, reexamination, 14346  
 Tactical vehicles, *see* Vehicles.  
 Tactual perception, experiments and models, 6706  
 Tadjik Soviet Socialist Republic:  
 Academy of Sciences—  
 conferences of young scientists, 14254  
 Department of Biological Sciences, newly elected members, 16785  
 medical education problems, 2474  
 neuropathology and psychiatry developments, 4983  
 Tadjikistan, *see* Tadjik Soviet Socialist Republic.  
 Taeuber, Courad, lecture, Jan. 11, 1967, 4357  
 Taft-Hartley act, *see* Industrial relations.  
 Tagging summary of American shad, Alaska sapidissima (Wilson) and striped bass, *Roccus saxatilis* (Walbaum), 8037  
 Tahoe, Lake:  
 and tributaries, pollution of interstate waters, conference proceedings, 9500  
 south, water pollution, hearings, 2056  
 Talk Song Sin, *see* Song Sin Talk.  
 Taiwan:  
 establishing business in, 10462  
 market for U.S. products, 17853  
 Take me to your leader, 10318  
 Take 3 giant steps to clean air, 2821, 11731  
 Take-off (aircraft):  
 climbout profiles of 4-engine turbojet transport airplane, noise measurement evaluations, 2699  
 jet-transport handling qualities and airworthiness criteria, research simulator for investigating, validation, 1476  
 Talbot, Lee M., wild animals as source of food, 4810  
 Talent, and skills, migration, some facts and figures, 14681  
 Talerico, Robert L., Florida externa Ferris scale insect of hemlock, 17796  
 Tallahala Reservoir:  
 Pascagoula River, Miss., engineer report—departmental edition, 13983  
 document edition, 13557

- Tallinn, Estonia, travel to, Finnish brochure, 15429
- Tallmadge, G. Kasten, training equipment and individual differences, 9980
- Tallow, world production and trade, 4817
- Tamarac National Wildlife Refuge, birds, list, 15264
- Tamarack, botanical and commercial range in Lake States, 8070
- Tamarisk, growth, periodic mowings suppress, increase forage for browsing, 6368
- Tamarix, saltcedar leaves and stems, saline residues, composition, 6397
- Tampa, Fla., area wage survey, 2505
- Tampa Bay, oceanographic atlas, 12545
- Tang, Walter K., effect of inorganic salts on pyrolysis of wood, alpha-cellulose, and lignin determined by dynamic thermogravimetry, 8103
- Tank linings, *see* Linings.
- Tanks:
- axially symmetric response of elastic cylindrical shell partially filled with liquid, 6907
  - cylindrical, liquid outflow during weightlessness, experimental investigation, 2720
  - dynamic behavior of liquids in moving containers, 5189
  - flexible and rigid ring baffles for damping liquid oscillations in large-scale cylindrical tanks, 8493
  - fuel tanks and tank filler pipes for automotive vehicles, Federal standard, 4795
  - liquid hydrogen, normal gravity self pressurization, 18019
  - pressurant requirements of helium for liquid-hydrogen expulsion using submerged gas injection, 14492
  - pressurized, preformed stiffeners used to fabricate structural components, 6842
  - propellant, venting in zero-gravity environment, 5164
  - titanium, stress corrosion failure retarded with glass bead shot peening, 14413
  - water-closet, trim, standard of trade, 5287
- Tanks (military science):
- employment, Fleet Marine Force manual, 16840
- Tanning and tanning materials, extracts, suspension of duty, continue, report, 4584
- Tantalum:
- alloys resist creep deformation at elevated temperatures, 6748
  - columbium and tantalum alloy development, 11389
  - dislocation structures in slightly strained tungsten-tantalum alloys, 14486
  - nonelectrolytic capacitors developed, 2667
  - tantalum and steel apparatus, use for molten Cd-Mg-Zn alloys, 8397
- Tantalum carbide:
- Hall coefficient, as function of carbon content and temperature, 18018
  - thermodynamic data, 1410
- Tanzania:
- background notes, 1621
  - Burundi boundary, study, 1630
  - Kenya boundary, study, 1631
  - labor conditions, 2517
  - mineral industry, minerals yearbook chapter, 8355
- Tao-tai Hsia, *see* Hsia, Tso-tai.
- Tape, Gerald F.:
- remarks—
    - Dec. 13, 1966, 1813
    - May 4, 1967, 8916
- Tape, TFE-fluorocarbon (polytetrafluoroethylene) resin skived tape, standard of trade, 5286
- see also* Adhesive tape—Electronic data processing systems—Punched tape.
- Tape readers, *see* Readers (tape).
- TAPER (temporary authority pending establishment of register) employees, *see* Government officials and employees.
- Tapering pants, 7281
- Tapeworms, general information, 1574
- Tapia Davilla, Luia, relief, 10717, 12237, 16122
- Taps and dies, tool and die industry, problems, report, 4514
- Tar:
- coal tar distillates and residues, mass spectrometric analyses, 14354
  - coal tar enamel, synthetic resin primer, 10073
  - lignite, low temperature, produces phthalic and maleic anhydrides, 9768
  - low-temperature bituminous coal tar, identification of distillable paraffins, etc., 12795
  - resin fraction from various low-temperature tar pitches, characterization, 6632
  - yields and analyses of tars from coal carbonization, 16850
- Tar roofing, *see* Roofing.
- Tar siding, *see* Siding.
- Tarassuk, N. P., dye binding of milk proteins, 4152
- Targets:
- cratering in low-density targets, 11420
  - interchangeable noodes, X-ray source uses to vary X-ray wavelength, 14424
  - optical, simplified fixture permits precision alignment, 2670
  - point-source detection system rejects spatially extended radiation sources, 6784
  - probability of target lock-on by automatic ranging during automatic search, USSR study, 11283
  - see also* Radar targets—Sonar targets.
- Tariff:
- act of 1930, special and administrative provisions under titles 3 and 4, text, 3890
  - Canadian, customs tips for Expo 67, 9358
  - communications carriers, FCC rules and regulations, 3279
  - concessions granted by United States at GATT trade conference—
    - general summary, 15751
    - list, 13128-129
  - customs administration, agreement with Philippines, 10101
  - customs bulletin, weekly, 3174
  - customs cases adjudged, 10881
  - customs duties, code of Federal regulations, 12525
  - customs hints for nonresidents, 10885
  - French edition, 15179
  - German edition, 13908
  - Italian edition, 13907
  - Spanish edition, 13906
  - customs hints for returning U.S. residents, 10882
  - customs law violations, warning to masters of vessels, 7843
  - customs regulations, 3175, 4665
  - revised pages, 4666, 6138, 10883
  - customs trademark information, 10884
  - decisions under customs laws—
    - Customs Court, 972, 9359, 16454
    - weekly report, 3977
  - publications, price list, 5415
  - schedules, 3927
    - amend to change dutiable status of watches, etc., from insular possessions—
      - law, 509
      - report, 911
    - annotated, 3928
    - supplements, 2943, 7204, 10111, 14702
  - technical amendments act, extension of time for filing certain requests—
    - law, 13523
    - reports, 9089, 13800
  - summaries of trade and tariff information, 7203, 8765, 18237
  - tariff-rate import quotas, 9357

# INDEX 1967

## Tariff—Continued

treatment of articles assembled abroad of products of U.S., law, 510  
see also names or classes of articles imported or exported.

## Tariff Commission:

appropriations, 1967, law, 501  
appropriations, 1968—  
hearings, 10632, 16390  
reports, 10616, 16372  
notices of hearings, investigations, etc., 3926  
press releases, 3764  
reorganization—  
hearings, 9160, 10850  
message from the President, 9061  
reports, 9111, 10759  
report, 1966—  
departmental edition, 7202  
document edition, 5985

Tariff examiners, see Transportation tariff examiners.

Tariffs and trade, general agreement on, see General agreement on tariffs and trade.

Tarim River and Valley, basin, description of deserts, 16777

Tarjan, George, comments, Mar. 1967, 7048

Tarpaulins, for fumigation, roller system to facilitate covering boxcars, 13202

Tarranta, William E., work injuries and work injury rates in heavy construction industry, 17890

Tartaron, Francis X., effect of lime structure in oxygen steelmaking, 6682

Tashiro, H., development of blacklight traps for European chafer surveys, 7303

Tasmania, lights and fog signals, list, changes, 1537, 7004, 11642, 18099

Tate, Ray J., soil survey of Gwinnett County, Ga., 15748

Tate County, Miss., soil survey report, 11811

Taube, Carl A., employees in nursing and personal care homes, number, etc., 7098

Taunton quadrangle, Mass., geology, 9560

## Tax Court:

appropriations, 1968—  
hearings, 6027, 10806  
law, 13529  
reports, 9097, 10791  
reports (decisions)—  
bound volumes, 2944, 8768, 17259  
consolidated pamphlets, 3929

## Tax exemption:

applications, revocation or modification of exemption rulings and determination letters, issuance of rulings involving prohibited transactions, procedure outline, 14205

combat pay exclusion for commissioned officers, increase, law, 452

Federal excise, on beer and tobacco products, GAO review, 9554

foundations and charitable trusts, their impact on our economy, committee prints, 4562, 10679  
print additional copies, reports, 13653, 13820

foundations, their impact on small business, hearings, print additional copies, reports, 13653, 13820

House of Representatives majority and minority rooms from D.C. sales and use taxes, report, 9087

pension, annuity, profit-sharing, stock bonus, or bond purchase plans, and exempt status of related trust, procedure outline, 12652

Tax guide for U.S. citizens abroad, 2414

Tax law specialist, 6463

## Tax refunds:

attributable to net operating loss deductions, opportunities for reducing cost, Internal Revenue Service, GAO report, 11149

Federal gas tax refund, nonhighway and transit users, 1143

## Tax refunds—Continued

interest on income tax refunds made within 45 days after filing return—

law, 1970  
reports, 2023, 2097

internal revenue taxes, refunds and credits, report, 9057

revenues increased by improving controls etc., relating to interest paid on Federal income tax refunds, Internal Revenue Service, GAO report, 2344

Tax returns, see Income tax.

## Taxation:

attempted criminal violations of tax laws,

detection and investigation, 16721

career opportunities, IRS—

in tax work, 2400

tax law specialist, 6463

tax technician, 1148

current tax developments (remarks)

10117, 13165

double, convention with—

Belgium, protocol, 2908

Brazil—

hearing, 17651

text, etc., 9185

Canada, supplementary—

hearing, 17651

report, 17620

text, etc., 4575

Trinidad and Tobago—

hearing, 17651

report, 17620

text, etc., 6063

United Kingdom, 2921

exports, recommendations of Action Committee on Taxation, status report, 9021

farmland—

differential assessment, near cities, experience in Maryland, 17712

rural-urban fringe, summary of State preferential assessment activity,

16486

Federal tax lien act—

law, 433

legislative history, 757

report, 656

foreign investors tax act of 1966—

law, 513

law, summary, 9177

legislative history, 7762

report, 702

Senate amendments, summary, 4567

summary of House bill and suggested technical amendments, 2114

guide for U.S. citizens abroad, 2414

highway statistics, 13101

intergovernmental relations, results of questionnaire, print additional copies,

reports, 4597, 10585

international tax matters, current developments in U.S. treatment, (remarks),

8769

join the world of international taxation,

career opportunity, 8217

key factor in business decisions, 1598

open space land planning and taxation,

bibliography, 12627

publications, price list, 5415

quarterly tax reports, 5894, 7495, 10385,

16034

real property transferred by RFC to other

Govt. departments, payment in lieu

of taxes, extend—

law, 13531

reports, 10606, 13793

recommendations for taxes—

hearings, 17614

message from the President, 16154

small business, 1967 guide, 2413

social security—

employers in Virgin Islands, Guam, and

American Samoa, 2402

household employer's tax guide, 2401

State and local governments revenue,

quarterly summary, 5894, 7495, 10385,

16034



**Taxation—Continued**

State-local taxation and industrial location, interrelationship, 15823  
 State tax collections, 1966 report, 180  
 States, interstate taxation act, reports, 9084, 13682  
 tax overlapping in U.S., supplement, 4079  
 tax policy and tax administration (remarks), 10125  
 tax policy developments in corporate area (remarks), 7215  
 tax surcharge and national economy (address), 18244  
 uses of tax policy (remarks), 8776  
*see also* Employment taxes—Excise taxes—Franchise tax—Income tax—Inheritance and transfer tax—Internal revenue—Revenue—Sales tax—Social security—Tax exemption—Tax refunds—*also* names of articles, etc., subject to tax.

Taxes, *see* Taxation.

**Taxonomy:**

distribution, and polymorphism in *Labi-docera jollae* group, etc., 8544  
 extinct sea mink, 6964  
*Streptomyces griseus* (Krainsky) Waksman and Henrici, study of some strains, 54  
 Subgenus *Podosemum* and section *Epicampes* of *Muhlenbergia* (gramineae), taxonomic study, 17047  
 systematic position of 2 taxa erroneously placed in family *Stenomitidae* (lepidoptera), 5304

Taylor, James T., digital filters for non-real-time data processing, 17935

Taylor, Dan, AFOSR research, 15878

Taylor, Earl G., Baltimore regional wholesale food distribution facilities, 5650

Taylor, George S., Court of Customs and Patent Appeals custom cases adjudged, etc., 10881, 12437

Taylor, H. Ralph:

addresses, etc.—  
 Nov. 15, 1966, 2386  
 Nov. 22, 1966, 2379  
 May 19, 1967, 11198  
 Sept. 12, 1967, 17841

Taylor, J. Thomas, thermal control considerations for manned orbiting space station, 11538

Taylor, John G., brooding chicks with infrared lamps, 15857

Taylor, Maynard F., correlation of friction coefficients for laminar and turbulent flow etc., 17014

Taylor, Proctor P., jr., preparing contractor reports for NASA, data presentation, 1443

Taylor, Rufus L., nomination, hearings, 942

Taylor, Walter W., relief, 319

Taylor, William R., enzyme method of clearing and staining small vertebrates, 11605

Taylor, David, Model Basin, *see* David Taylor Model Basin.

Tea, foreign agriculture circulars, 3345

**Teacher Corps:**

naming, extending program, etc.—  
 law, 12176  
 reports, 12275, 13643, 13805

Teacher Corps, National, *see* National Teacher Corps.

**Teachers:**

civil defense adult education, personal and family survival, manual, 7916, 12470

compensation, long-term trends in urban public schools, 5050

constructing and using achievement tests, guide for Navy instructors, 1544

daily program for child development center, manual, 15204

District of Columbia—

leave act of 1949, amend relative to sick leave provisions, report, 14991

retirement act, amend to provide full annuity at age 55, report, 14992

salaries, increase, law, 4992

**Teachers—Continued**

education, standards, 6195

elementary, employment opportunities, Indian Affairs Bureau, examination announcement, 1922

discontinuance notice, 1921

English teaching forum, facts and ideas for teaching English as foreign language, 5577

experienced elementary and secondary fellowship for graduate study, program, 6182

Federal income taxes program, general, guide, 1149

Israel, modern education system, 6187

meeting shortages, higher education act amendments—

law, 12176  
 reports, 12275, 13643, 13805

of disadvantaged youth, national defense education act, institutes for advanced study, summer 1967, handbook for directors, 1003

opportunities abroad for teachers, teaching, summer seminars, 13958

prospective teacher graduate fellowships, 1967-68 programs, 7906

public elementary and secondary day schools, fall 1966, statistics, 7896

retired, opportunity to reach the forgotten through VISTA, 15208

teaching for the future (address), 13965

*see also* Faculty (schools).

**Teaching:**

automatic systems, optimal training algorithms in case of nonideal teacher, USSR study, 9619

beautiful junk, inexpensive materials for preschool program, 17709

Federal income taxes program—

farm, 8221

general, 8220

Muslim, reviewed in Soviet press, 1252

raw luster for college teaching, address, 9404

Peace Corps, from rote to reason, 5385

teaching as business and desire (address), 9412

teaching for the future (address), 13965

*see also* Programmed instruction—

*also* subjects taught.

**Teaching machines:**

computer-aided teaching of dynamic system behavior, 62

exhibit, USSR study, 1201

**Teak:**

pruning, effects, 12576

young, plantation, mowing understory vegetation, 12574

Teal, green-winged, distribution, migration and population dynamics, 14067, 16633

Team training, 18109

Teamwork, TVA and Tennessee Valley Trades and Labor Council (periodical), 3930

Tech Top Project, *see* Project Tech Top.

**Teche Bayou:**

basin, engineer report—  
 departmental edition, 4741

document edition, 4479

Technical abstract bulletin, Government-wide index, 3381

**Technical assistance:**

EDA program, what it is, how to apply, 7867, 13933

management and technical aid for displaced small businesses, 14643

technical assistance aid (series), 8286

*see also* Foreign aid.

**Technical bulletins:**

Agriculture Department, 54, 1722-23, 4151-52, 5685-88, 7303, 8849, 11945, 13252, 14763-765, 17334-336

Coast and Geodetic Survey, 5946

Technical cooperation, *see* Foreign aid—*also*

name of country with which agreement is made.

# INDEX 1967

Technical cybernetics (USSR periodical):  
translations, 2481, 6502, 9615, 14226,  
15401

Technical education:  
determining courses of study, 1017  
role of technical schools in improving skills  
and earning capacity of rural manpower,  
case study, 5040  
technical education program series, 1000  
vocational-technical program development,  
State reports, 6196

Technical history of environmental control  
system for Project Mercury, 18009

Technical information:  
Army scientific & technical information  
program, 13306  
Government research and development re-  
ports that may help your company,  
14520  
scientific and technical information serv-  
ice, organization in USSR, 2430  
single and united system, construction.  
USSR study, 9646, 9675  
systems, nonconventional, in current use,  
descriptions, 11623

Technical information bulletin, Public  
Health Service, 17164

Technical instruments, exports, 1958-66,  
analysis, 15983

Technical intelligence, 102

Technical journal of soils (Communist China  
periodical):  
translations, 1211

Technical libraries, *see* Libraries.

Technical manuals:  
Army Department, 105-115, 1767-72,  
4213-18, 5740-46, 7390-402, 8885-94,  
10270-282, 11994-995, 13301-304,  
14801-803, 15945-954, 17386-387  
Army Strategic Communications Com-  
mand, 7377  
printing, procurement from equipment con-  
tractors, Defense Dept., GAO report,  
2345

Technical memorandums:  
Coastal Engineering Research Center,  
7924-25, 10954, 13976, 16522-523  
Environmental Science Services Adminis-  
tration, 6219-22, 7935, 9427-29, 10964-  
966, 12479, 15231, 16532  
National Aeronautics and Space Adminis-  
tration, 2682

Technical news bulletin, National Bureau of  
Standards, 3931

Technical news from Department of Com-  
merce, National Bureau of Standards, 3932

Technical notes:  
National Aeronautics and Space Adminis-  
tration, 1473-1514, 2683-2730, 5228-75,  
6851-6907, 8480-506, 9871-9918,  
11485-555, 12919-976, 14447-497,  
15554-581, 16970-17011, 18008-53  
National Bureau of Standards, 1525-26,  
2743-46, 5288-93, 6921-24, 8526-27,  
9944-45, 11589-592, 12989, 14517-519,  
17038-42, 18080-83  
Weather Bureau, 2972

Technical papers:  
Census Bureau, 5902, 13401, 16035  
National Advisory Commission on Food  
and Fibers, 15666, 17122-124, 18144  
Sport Fisheries and Wildlife Bureau,  
4811-12, 8042, 12551, 14070, 16636,  
17787

Technical progress reviews, 3449, 3645, 3697,  
3806-7

Technical publications, National Bureau of  
Standards, 1527

Technical record of design and construction:  
Navajo Dam and Reservoir, 7103, 8667  
Willard Dam, 8671

Technical reference, Department of Labor,  
safety training program, TR 18 series,  
9733-41

Technical reports:  
Air Weather Service, 7318, 8860, 15883-  
884, 17339  
Army Aviation Materiel Laboratories,  
116-117, 1773, 4220-23, 5747-49, 7408-  
11, 8897-98, 10286-293, 11996-998,  
13307-310, 15955, 17388  
Army Engineer Division, North Pacific,  
2201, 4729, 10949  
Army Transportation Research Command,  
8895  
Civil Defense Office, 4384, 5917, 7529-30,  
8981, 14847, 16058-60  
Coastal Engineering Research Center,  
1022  
Cold Regions Research and Engineering  
Laboratory, 99, 4200-2, 7381, 8879,  
11983, 15932-933, 17377-379  
Electronic Systems Division, 62-65, 4166,  
8861-64, 13262  
Environmental Science Services Adminis-  
tration, 2223-25, 4748, 6223-25, 9430,  
10967-968, 16533  
Government reports, standard for descrip-  
tive cataloging, 6245  
National Aeronautics and Space Adminis-  
tration, 1515, 6908-10, 8507-8, 9919,  
11556-559, 12968-971, 14498-499  
17012-16, 18054-56  
Naval Oceanographic Office, catalog, 11632  
Naval Training Device Center, 2784, 5343,  
7024, 8585, 9980-82, 11670, 15635,  
18109  
Ohio River Division Laboratories, 16524,  
17734  
Personnel Research Laboratory, 4170-72,  
5705, 7339, 13267-268, 15891-893,  
17343-345  
School of Aerospace Medicine, 65-92, 1730-  
44, 4175-87, 5706-15, 7341-70, 8868-  
69, 10231-244, 11954-967, 13269-272,  
14770-782, 15894-901, 17346-363  
Veterans Administration, 13171  
Waterways Experiment Station, 1030,  
2220-21, 4743-45, 6210-16, 7930-34,  
9424, 10960-962, 13985-988, 16526-529,  
17737

Technical research notes:  
Army Personnel Research Office, 118,  
4224-26, 5750-51, 7403-5, 10282A-283  
Behavioral Science Research Laboratory,  
14804

Technical research reports, Army Personnel  
Research Office, 119, 4227-28, 5752, 7406

Technical services:  
Engineers Corps in war against Japan,  
5096  
government policy and practices with re-  
spect to contracts, hearings, 10843  
mid-level positions, examination announce-  
ment, 16068  
State—  
designated agencies, list, 10469  
national conference, report, 12131  
working relationships (remarks), 4450

Technical study series, National Commission  
on Food Marketing, 5297-98, 9947

Technical translations:  
bibliography (periodical), 3933  
National Aeronautics and Space Adminis-  
tration, 5276-77, 6911-12, 8509-12,  
9920-28, 11560-573, 12972-976, 14500-  
504, 15582, 17017, 18057

Technical writers, *see* Authors.

Technicians:  
Army National Guard program, job de-  
scriptions, pamphlet, change, 11597  
current employment market, 4727  
employment in State governments, 15450  
engineering and physical science, exami-  
nation announcement, 13445  
engineering and scientific, examination an-  
nouncement, amendment, 1910  
engineering, pay, national survey, 2507

Technicians—Continued

National Guard, clarify status—  
hearings, 6030, 17640  
reports, 658, 6012  
radiological health, training, 13093  
restoration technician, examination an-  
nouncement, 17455  
senior level positions, examination an-  
nouncement, 8988  
women in technical positions, fact sheet,  
5602  
see also Computer technicians—Electronic  
technicians—Fire control technicians—  
Mathematics aids—Physical science  
aids.  
Technique for rearing pales weevil, 9538  
Technique for verifying structural integrity  
of full scale segments of launch vehicles at  
transonic speeds, 6906  
Techniques Development Laboratory, ESSA  
technical memorandum, WBTM TDL  
series, 9428-29  
Technological innovations:  
and human goals (remarks), 15976  
innovation and profitability (address),  
7568  
problems and opportunities (remarks),  
7584  
technological innovation, its environment  
and management, 5962  
Technological Laboratory, Pascagoula, Miss.,  
Commercial Fisheries Bureau, annual re-  
ports, 4801, 16620  
Technologists, see Forest products technol-  
ogists—Medical technologists.  
Technology:  
academic technology, degree profile and  
Federal contributions to universities,  
etc., 14560  
acquisition channels in commercial firms  
and NASA dissemination program,  
program, 14375  
applied science and technological progress,  
panel report—  
articles, 16342  
hearing, 15049  
print additional copies, report, 16263  
Army Materiel Command, manufacturing  
methods and technology, 5-year pro-  
gram, 15943  
assessment, for determining public policy,  
13717  
Bulgaria, progress, 1967 program, 6494  
Communist China, translations, 3952  
computer—  
cybernetics in service of Communism,  
USSR studies, 12742  
in Soviet economy, 1310  
USSR problems in assimilating, 2449  
education and changing technology (ad-  
dress), 998  
exchanges, agreement with Union of  
Soviet Socialist Republics, 7182  
future international meetings, world list,  
4073  
health service industry, 1965-75, report,  
11297  
Hungary, technical mechanical research  
status surveyed, 15415  
impact on desalting and energy develop-  
ment and utilization (remarks), 10313  
impact upon world trade, symposium pro-  
ceedings, 8520  
manpower and automation in perspective  
of long-term technological change, sem-  
inar on manpower policy and program,  
2487  
NASA technical reports for 1966, selected  
listing, 12884  
new pay scales for scientific workers in  
Bulgaria, 1303  
new technology reporting to NASA—  
management guidelines, 1418  
reportable items under new technology  
clause, 5279  
nuclear science and technology for ceram-  
icists, proceedings of symposium, 12982

Technology—Continued

Panel on Science and Technology, 8th  
meeting—  
papers, 12315  
proceedings, 9170  
papers, contributions from History and  
Technology Museum, title page, con-  
tents, and index, 14529  
policy studies, review and forecast, 2059  
postal modularization, hearings, 13712  
processing meat products, new technologi-  
cal methods, 6546  
relationship to transnational business  
(remarks), 9025  
requirements of food additive petitions,  
FDA guidelines, 2285  
science and technology for mankind's  
progress, 13454  
science, government, and public policy,  
Government-science relationships dur-  
ing 89th Congress, 13716  
scientific and technical information (USSR  
periodical), 3852  
setting up socialist brigades for technical  
progress, new regulations announced,  
Bulgaria, 12668  
sociological problems of development,  
USSR review of new literature, 16787  
space power systems advanced technology  
conference, 1440  
spacecraft sterilization, conference papers,  
5190  
State technical services—  
act, amend to include Guam—  
law, 475  
report, 891  
discipline-oriented or problem-oriented?  
4452  
technical thesaurus, manual for building,  
4677  
technology and criminal justice, task force  
report, 11704  
technology and world trade (remarks),  
1958, 1961  
technology and your new products, 13118  
telephone industry, 1965-75, report, 5036  
time, leisure, and computer, crisis of mod-  
ern technology (remarks), 5799  
Timisoara Center for Technical Research,  
Rumania, activities, 1191  
transfer—  
address, 244  
assessing, 2619  
policy planning report, 10693  
transfer and innovation, conference pro-  
ceedings, 15616  
USSR—  
achievements, 14248  
advancement and improvement, 1158  
information services for technical pro-  
gress, value, 6513  
Lenin prizes, recipients, 9657  
technical information, development,  
9613  
utilization (series), 5193-96, 6737-38,  
8440-41, 11428-430, 15517-518, 16932-  
933, 17953  
utilization bibliography (series), 2618,  
5026, 8439  
water yield increase from atmosphere,  
technological development plan, 5480  
see also Space technology—Technological  
innovations—also subjects.  
Technology and Human Environment, Se-  
lect Committee on, Senate, establish, hear-  
ings, 10840  
Technology and Science, Federal Council for,  
see Federal Council for Science and Tech-  
nology.  
Tectonics:  
analysis of upper Mississippi Valley zinc-  
lead district, 4888  
Upper Cretaceous and Tertiary rocks, east-  
central San Juan Basin, N. Mex., 16693  
Tedrow, R. L., digest annotated and di-  
gested opinions, U.S. Court of Military  
Appeals, 9369

Teenagers, *see* Youth.

Terms sound off, 17726

Teeth:

adults, decayed, missing, and filled teeth, 1960-62, United States, 5470

dental care for chronically ill, 13089

dental caries increments, evaluation with bite-wing roentgenograms, 14321

dental caries status of Air Force enlistees, 7353

dental health program for American Indians, Eskimos, & Aleuts, 11724

healthy, growth, care, etc., 5433

National Dental Health Assembly fluoridation, emphasis, 5449

research explores dental decay, 1576

thermography of human dentition, 17357

Teflon, *see* Polytetrafluoroethylene.

Tehama-Colusa Canal unit, *see* Central Valley project.

Tehama County, Calif., soil survey report, 14653

Tejon, Maria V. S., *see* Tejon, Virginia S.

Tejon, Virginia S., relief, 12227

Telecommunication:

agreement with, Philippines, 1638

code of Federal regulations, 7985-87, 9483

communications, electrical, classification definitions, 17108

engineering, installation practices CC TM technical manual, 7377

high frequency ionospheric systems, statistical performance indexes, predicting, 2223

international, convention and protocol—report, 7775

text, 15779

pre-sunrise operation of certain standard (A) radio broadcasting stations agree-

ment with Canada, 15780

space technology, 6731

split phase link, characteristics, 15580

*see also* special method of communication.

Telecommunication Sciences and Aeronomy Institute, *see* Institute for Telecommunication Sciences and Aeronomy.

Telegraph:

and telephone committees of FCC, report in domestic telegraph investigation, 17751

carriers—

domestic and overseas, annual statistics, 16565

quarterly operating data, 3797

franks, FCC rules and regulations, 3279

input-output devices for digital computer systems, USSR study, 1254

telegraphy, patent classification definitions, 17106

wire, classification of employees, FCC rules and regulations, 3279

Telegraphy, *see* Telegraph.

Telemetry:

automatic checkout system, 18002

digital system detects binary code patterns containing errors, 2647

efficient coding system for deep space probes with, 14493

evolution of satellite PFM encoding systems, 5241

maximum utilization of FM subcarrier bandwidth, 9992

miniature capacitive accelerometer especially applicable, 1470

satellite, data stimulation program, generalized, 1508

satellite station near Fairbanks, Alaska, agreement with European Space Research Organization, 11836

space, data compression with error-control coding, 11558

STARS II, fully automatic satellite data processor, description, etc., 11527

system, miniature, accurately measures pressure, 6786

systems, numerical data frame readout system used in testing, 12901

Telemetry—Continued

temperature-sensing system for rhesus monkeys, 17360

Teleostei, copepod crustaceans parasitic on teleost fishes of Hawaiian Islands, 11603

Telephone:

abusive and harassing calls in interstate and foreign commerce, or within District of Columbia, amend communications act—

hearing, 10826

reports, 4582, 9294

carriers—

annual statistics, 16566

quarterly operating data, 3796

commercial communications services, Air Force manual, 4164

companies—

class A and class B, classification and compensation of employees, FCC rules and regulations 3279

consolidation, acquisition or control applications, FCC rules and regulations, 3279

uniform system of accounts, FCC rules and regulations, 3278

criminal penalties for making certain calls in D.C., report, 9128

directories—

Agriculture Department, 17337

Atomic Energy Commission, 14810

Commerce Department, 16110

House of Representatives, 7592

Interior Department, 17850

NASA headquarters, 16926

Senate, 760, 10689

State Department, International Development Agency, Arms Control and Disarmament Agency, 15764

franks, FCC rules and regulations, 3279

House Members, service outside D.C., payment from contingent fund, report, 10583

industry, technology and manpower, 1965-75, report, 5036

materials acceptable on systems of REA borrowers, list, 3513, 13111

rural programs—

statistical report, 2849

supplemental financing—

hearings, 938, 10625, 17585

report, 13659

service to military family housing occupants, methods used to provide, Defense Dept., GAO review, 6383

sound-powered, talker's manual, 4422

statistical bulletin, 3801

synthetic telephony, USSR study, 5010

systems, invasions of privacy, hearings, 6118

telephone and telegraph committees of FCC, report in domestic telegraph investigation, 17751

telephony, patent classification definitions, 17107

Telephone cabinets, wood, Federal standard, cancellation, 6308

Telephone cooperatives, annual meeting guide, 7105

Telephone lines, extension, etc., FCC rules and regulations, 3279

Telephone operators:

examination announcement, 5923, 13451

suspension notice, 4409

Telephony, *see* Telephone.

Telescopes, *see* Coronagraphs—Radio telescopes

Telesat, *see* Satellites.

Teletype:

and Leroy symbols, relative legibility, 64

maintenance of teletypewriter systems, FAA handbook, 7946

noise-rejection coding of digital teletype communications in complex automatic hydrometeorological telemetering systems, USSR study, 8275

Teletype—Continued

TT-299/UG equipment, maintenance training, trainee's guide, 1547  
Teletypewriter, *see* Teletype.

Television:

anticompetitive effects of sale of network TV advertising, hearings, 10857, 16424  
apparent resolution, means for improving, 11478  
broadcast actions, reports, 3269  
cable TV, requests filed under FCC rules, 3269  
center for ITV, 997  
closed circuit system monitors welding operations, 12893  
closed-circuit TV maintenance course, class C, curriculum, 7015  
cloud photography, meteorological satellite data, catalog—  
ESSA 3, 16536  
TIROS IX, 6227  
TIROS X, 13990  
community antenna systems, copyright law revision, hearings, 4645  
diagnosis, USSR study, 1257  
educational, Ford Foundation proposal for broadcasters non-profit satellite service, hearings, 2111  
emergency broadcast system, basic plan, 14016  
head-controlled system produces high-quality remote image, 16887  
households with sets in US, current housing reports, 7477  
households with UHF and color sets in selected metropolitan areas, current housing reports, 15989  
images, ultrasonic, improved by use of Lamb-wave orientation technique, 15494  
instructional television, research, 9409  
military map symbols legibility, 63  
postal service uniform or badge worn in productions, permit use, report, 14975  
predictions and projections of election results, effects—  
hearings, 16400  
report, 15143  
professional football telecasts, protect secondary school contests—  
hearings, 742  
law, 504  
law, legislative history, 2064  
law, summary, 4566  
Senate amendments, summary, 4568  
public broadcasting act of 1967—  
hearings, 10824, 13710  
reports, 10756, 14980, 16245  
receiving sets, deceptive advertising as to sizes of viewable pictures, trade regulation rule, 6337, 11068  
receiving tubes, temporary suspension of duty, report, 2028  
sets, current industrial reports, 4323, 12072  
signal processing system, 14438  
stations, require furnishing of free time to candidates for public office, hearings, 16400  
synchronization system features stability and noise immunity, 11455  
*see also* Scanning.  
Television cameras, *see* Cameras.  
Tellman, S. J., measurement of uniaxial creep of selected adhesives in free film form, 12570  
Tellurium:  
distribution—  
Cripple Creek district, Colo., 9571  
Ely mining district, White Pine County, Nev., 9564  
materials survey, 16854  
Tellurium isotopes, elastic and inelastic scattering of 42-MeV alpha particles, 11536  
Telsey, Leon G., nomination, hearings, 6034

Temperature:

absolute temperature measurement at microwave frequencies, 17016  
bend transition of wrought tungsten, effect of ductile cladding, 17008  
brass alloy holds bonding strength over wide temperature range, 5207  
calculating steady temperature in gas containing heat sources, digital computer program, 16987  
control, orbital otolith experiment, 12868  
distribution, of conical porous membrane during planetary entry, 11554  
electron, nonequilibrium, magnetically induced, 9995  
elevated—  
edgewise compressive properties of titanium and nickel-base sandwich constructions, 8102  
tensile properties of discontinuous-fiber composites, metallurgical and geometrical factors affecting, 8498, 14451  
undercoat prevents blistering of silver plate, 11444  
fast response thermocouple measurement, in cryogenic gases, 6820  
fixture tests bellows reliability through repetitive pressure/temperature cycling, 11448  
freezing spring temperature damage to knobcone pine, 8117  
high—  
bearing cage materials, evaluation, 5274  
brazing tungsten for nuclear reactor service in hydrogen, 11506  
coating of metals, USSR study, 9677  
cobalt-iron alloy, investigation, 1500  
engines, cold-air investigation of turbine, 5236  
thermometry seminar, 129  
initial load and exposure to moderately elevated temperature effect on room-temperature fatigue life of Ti-8Al-1Mo-1V titanium-alloy sheet, 14464  
instrument accurately measures small changes on test surface, 6799  
inversions, Arctic and subarctic survey, 4200  
jet, effect on refraction of sound, 14389  
limitations of ester, ether, and hydrocarbon base lubricants in 25-mm bore ball bearings, 15576  
liquefied gas streams, mixer conditions, 5219  
low cost instrument to measure, 11127  
low, hexagonal and cubic ice formation, study, 17375  
maximum surface, parameters for predicting of wood in exterior exposures, 1096  
measurement—  
bibliography, 11584  
in charring ablator, effect of thermocouple wire size and configuration, 6864  
on board entry vehicle, use in determining structure of atmosphere, 9904  
orbiting spacecraft, use of analog computation in predicting, 6853  
Pacific Northwest, monthly, 3669  
Pegasus spacecraft, thermal design, 1477  
evaluation, 2687  
precision capacitor has improved temperature and operational stability, 16885  
pressure diagrams construction for multi-component systems after method of Schrenemakers, geometric approach, 2359  
programmed, modulating valves, 2  
regulation, heater control circuit provides both fast and proportional control, 11445  
river temperatures, Pacific Northwest, 3839-40  
sea water, frequency spectrum of short-period fluctuations, USSR study, 1180

# INDEX 1967

## Temperature—Continued

- sound absorption in air versus humidity and temperature, 6707
- spectroscopic measurements in plasmas, 2714
- stability, improved performance in sensing disks for slug-type calorimeters, 11482
- steady-state distribution within plane or axisymmetric solids, computer program, 15487
- surface, of materials in presence of extraneous radiation, methods for obtaining, 16975
- temperature and dew points for Northern Hemisphere, 6992
- temperature and wind velocity combinations, recurrence in lower 100-m layer of atmosphere, experimental calculation, 11565
- thermophysical properties of potassium, summary, errata, 12920
- transient and steady-state temperature prediction for complex body shapes simplified by computer program, 9825A
- upper stratosphere and mesosphere, measurements, 17012
- water, data correlation and analysis for Oregon streams, 8177
- see also* Body temperature—Heat transfer—Ocean temperature.
- Temple, Tex., land transfer to, report, 6006
- Ten-bit analog-to-digital converter, 11486
- Tenants, *see* Landlords and tenants.
- Tengan, Matsusuka, relief, 568
- Tennessee:
  - Appalachia counties, forest industries, 16666
  - census of agriculture, 1964, State and county statistics, 16040
  - census of manufactures, 1963, area statistics, 1850
  - census of mineral industries, 1963, area statistics, 5842
  - climatological data, 3096
  - county business patterns, 4319, 13381
  - land conveyance to State for use of Memphis State University—
    - hearing, 9326
    - law, 12174
    - reports, 7709, 12365
  - mineral industry; minerals yearbook chapter, 6666
  - Pennyroyal area, commercial tobacco-livestock farms, costs and returns, 16490
  - postal map, 5398
  - precipitation data, hourly, 3401
  - soil survey laboratory data and descriptions, 13126
  - training and technology, new skills for underemployed, 16792
- Tennessee River and Valley:
  - forest resources and industries, 10116
  - labor movement between farm and non-farm sectors and multiple-jobholding by farm operators, 17262
  - navigation and economic growth, Tennessee River experience, 5567
  - precipitation in basin, monthly, 3698
  - water resource, nature's constant gift, report, 2945
- Tennessee Valley Authority:
  - annual report, 5566
  - appropriations, 1967, public works—
    - hearings, 939
    - law, 403
  - appropriations, 1968, public works—
    - hearings, 12287, 16393
    - report, 13678
  - electricity sales statistics, retail distribution, 3231
  - Engineering Laboratory research, 1965—66, in fields of civil engineering, mechanical engineering, instrumentation, 17260
  - fertilizer trends, 17261

## Tennessee Valley Authority—Continued

- financial statement, 1647
- GAO examination, 6375, 7604
- flood losses, managing, 13162
- forestry bulletin, 18239
- industrial development in area, 14706
- Maps and Surveys Branch, general information, 1649
- navigation and economic growth, report, 5567
- power, 1966 annual report, 1651
- power, 1967 program, 17263
- teamwork (periodical), 3930
- TVA, 1966 programs, 14708
- Tensile strength, *see* Strains and stresses.
- Tensimeters, pendant drop interfacial, modifications, 6640
- Tension:
  - acclimatization versus tolerance to stress, annotated bibliography, 17363
  - parawings, tension-structure, low-speed wind-tunnel investigation, 14454
- Tension shells:
  - flexible towed, flutter, 9818
- flow field and heat-transfer investigation, 5270
- Tenure of land, *see* Land tenure.
- Tepee burners, *see* Incinerators.
- Terichow, Oleg, pendulum sclerometer for surface hardness studies, 11381
- Terminal boards, Federal item identification guide, 13918
- Terminals (transportation):
  - Air Force guide, Defense Supply Agency handbook, 10888
  - air traffic control, 13276, 14785
  - Navy, Marine Corps, and Coast Guard guide, Defense Supply Agency handbook, 17690
- Termites, nonsubterranean, control, 7270, 8826
- Terms used in international agricultural trade, 9524
- Ternary alloys, *see* Alloys.
- Terrain:
  - NRL terrain clutter study phase 1, 14591
  - photography on Gemini IV mission, 11528
  - vector diffraction theory, 7935
- Terrestrial magnetism:
  - earth's magnetic field—
    - influence on—
      - backscattered signal, USSR study, 6575
      - diurnal variation of f<sub>o</sub>F<sub>2</sub> (Fourier analysis), 8512
    - NELIAC-N computer program to calculate components, 17083
  - internal magnetization of seamounts and its computer calculation, 12612
  - polar region studies in geomagnetism, USSR, 8277
- Territories:
  - health authorities, 1967, directory, 15680
  - report on 1965-66 compensatory education programs under title 1, Public law 10, 7890
- Territories Office:
  - appropriations, 1968, hearings, 7734
  - programs, briefing, hearings, 10655
- Terrorism:
  - organizations, curb, report, 16250
  - Viet Cong terror tactics in South Vietnam, 17218
- Tertiary limestone, *see* Limestone.
- Tertiary period:
  - lower Tertiary stratigraphy in west-central Puerto Rico, 17820
  - plants from Cook Inlet region, Alaska, 2365
  - rocks, east-central San Juan Basin, N Mex, stratigraphic and regional tectonic implications, 16693
  - rocks in Corozal quadrangle, Puerto Rico, 1112
  - tertiary biostratigraphy of Cook Inlet region, Alaska (series), 2365



Tertiary period—Continued  
 zoogeographic evidence for late Tertiary lateral slip on San Andreas fault, Calif., 17827  
 Test and evaluation report, 8599  
 Test facility, ballistic, for personal armor material, military standard, 9375  
 Testimony, *see* Evidence.  
 Testing:  
   employment testing procedures, guidelines, 2227  
   National Bureau of Standards, test services, inserts, 8518, 9937-39, 12980, 15585-587, 17032  
   nondestructive, trends and techniques, 11430  
   pressure transducers, automated tester permits precise calibration from 0 to 1050 psi, 15493  
   State departments of education—  
     personnel directory, 6178  
     publications, guide, 6185  
*see also* names of substances or objects tested.  
 Testing apparatus:  
   calibrating ultrasonic test equipment for checking thin metal strip stock, 12832  
   fire control technician training, test equipment, trainee's guide, 7023  
   Princeton dynamic model track, general description, 7409  
   tester automatically checks insulation of conductors in cables, 14369  
   tester for study of rolling element bearings, 8448  
 Testing laboratories, U.S. Government, directory, 14048  
 Tests, *see* types, or names of tests.  
 Tethyan fusulinids, *see* Fusulinidae.  
 Tetramine, C-14 labeled, absorption and distribution, in relation to use in animal damage control, 4851  
 Tew, Ronald K., soil moisture depletion by gambel oak in northern Utah, 4831  
 Tew, Roy C., analog-computer study of parasite-load speed control for solar-Brayton system turboalternator, 5258  
 Texas:  
   bituminous coal resources, 8158  
   census of manufactures, 1963, area statistics, 1851  
   census of mineral industries, 1963, area statistics, 4298  
   climatological data, 3096  
   cotton varieties planted in early producing section, 12430  
   county business patterns, 175, 14824  
   desalting of water supply, potential contribution to future supply, 15328  
   District Court, western district, new Midland-Odessa division, create, report, 16235  
   east, timber, 1964 harvest, 2323  
   electric rate book, 16585  
   farms, growth and capital accumulation, polyperiod analysis, 17336  
   highway safety study, Operation 66, joint engineering-enforcement project report, 1594  
   landings, fish and shellfish, 3934  
   livestock and meat industry, price information and market news, 13941  
   medical care of old-age assistance recipients, recovery of excess funds accumulated, GAO review, 8145  
   mineral industry, minerals yearbook chapter, 6667  
   municipal water supply from saline and conventional sources calculating costs, 12645  
   postal map—  
     eastern section, 5399  
     western section, 11698  
   precipitation data, hourly, 3401  
   radioactivity, airborne, 1952-55, maps, 1802

Texas—Continued  
   rice, rough, costs of drying and storing, 15864  
   salt domes, survey, 2541  
   weather stations, decadal census, 6228  
   west, engineering and economic aspects of cotton gin operations, 12542  
   *see also* Tiwa Indians of Texas.  
   Texas leaf-cutting ant, *see* Ants.  
   Texas Southmost College:  
     land purchase by Agriculture Dept.—  
       bearings, 16303  
       law, 16143  
       reports, 13368, 16370  
 Textbooks:  
   acquisition under ESEA, guidelines, 16513  
   schools, and treatment of minorities, hearings, 2045  
 Textile fibers, *see* Fibers.  
 Textile machinery, census of manufactures, 1963, industry report, 4272  
 Textile mills, machinery, fiber and fabric consumption, census of manufactures, 1963, industry report, 4272  
 Textiles:  
   balloon fabrics, compatibility with ammonia, 4836  
   broad-woven fabrics—  
     blends and mixtures, current industrial reports, 14826  
     finished, preliminary, current industrial reports, 4322, 13387  
   broad-woven goods, looms in place Dec. 31, 1965, summary, current industrial reports, 5855  
   colorfastness to light, use of standard light-sensitive paper for calibrating carbon arcs used in testing, recommended method, 12981  
   cotton typewriter ribbon cloth, Tariff Commission report, 2942, 10110  
   dyeing and finishing industry, wage surveys, 2501, 15446  
   fabric consumption, census of manufactures, 1963, industry report, 4272  
   Federal item identification guides for supply cataloging, supplements, 3292  
   flammable fabrics act, amendments of 1967—  
     hearings, 12404, 15041  
     report, 13825  
   fluid treatment and chemical modification, patent classification definitions, 5369  
   household fabrics, making flame resistant, 10177  
   industry—  
     job opportunities for non-whites in North and South Carolina, etc., 13994  
     starch use, economic evaluation, 7881  
     subcontractors' sales, shorts and seconds, 15723  
   USSR, news, 6531  
   weaving, how to inspect chart, 9691  
   knit cloth for sale, current industrial reports, 5867  
   man-made, depth of cut in tariff rates, 6th round GATT trade negotiations, 13354  
   man-made fiber broad woven goods, current industrial reports, 3170  
   narrow fabrics, current industrial reports, 4334, 5869, 12076  
   nonwoven fabrics, bonded fiber and conventional felts, current industrial reports, 4336  
   program, unique approach in business, Government relations (address), 10470  
   scouring and combing plants, industry wage survey, 15446  
   tufted products, current industrial reports, 7481, 16005-6  
   woven fabrics, current industrial reports, 3169  
*see also* names of textiles.  
 TFE, *see* Polytetrafluoroethylene.

# INDEX 1967

- Thailand:  
 amity and economic relations treaty, report, 15063  
 Army area handbook, 5734  
 background notes, 14668  
 Cambodia boundary, study, 2883  
 economy, basic data, 229  
 establishing business in, 13464  
 locomotives procured under military assistance program, Defense Department, GAO report, 6380  
 mineral industry, minerals yearbook chapter, 8368  
 postal services of U.S. Armed Forces, on-site inspection, report, 4505
- Thaler, G. J., algebraic methods for dynamic systems, 2600
- That troublesome transnational technological tiger, 9025
- Thatcher, John W.:  
 ferroalloys, 6633  
 silicon, 1415
- Thatcher, Robert C., pine sawfly *Neodiprion excitans* Roh., 11104
- Thawing, tests of concretes of various strengths and air contents, 13986
- Thayer, Louis M.:  
 nomination, hearing, 10823  
 remarks, Oct. 25, 1967, 18094
- Theater, postal service uniform or badge worn in productions, permit use, report, 14975  
*see also* Drama.
- Theater of operations, *see* Combat areas.
- Theaters, *see* Motion picture theaters.
- Theclinae, *see* Butterflies.
- Theirs to reason why, 15940
- Theobald, P. K., jr., minor elements in alluvial magnetite from Inner Piedmont belt, N.C. and S.C., 8172
- Theodolites, manual, use in midcourse navigation, 6905
- Theodore, Augustus J., relief, 326, 620
- Theory of electrostatic planar and spherical probes, 6722
- Theory of stellar spectra, 12975
- Therapeutics:  
 experimental therapy, infectious process, USSR studies, 6573  
 infusion therapy for patients with deep extensive burns, USSR study, 14275  
 radon waters and their uses, USSR study, 8241
- Therapists, *see* Corrective therapists—Manual arts therapists—Occupational therapists—Physical therapists.
- Therapy, *see* Therapeutics.
- Thermal absorption in seeded gases, 12866
- Thermal analysis, *see* Heat.
- Thermal conductivity, *see* Heat transfer.
- Thermal cycling:  
 fixture tests bellows reliability through repetitive pressure/temperature cycling, 11448  
 stabilizes planar silicon devices, 12902
- Thermal decomposition, *see* Decomposition.
- Thermal distillation of sea water, fundamentals of theory of marine evaporators, 17390
- Thermal energy storage, *see* Energy storage.
- Thermal environment, *see* Environment.
- Thermal expansion, *see* Expansion (thermal).
- Thermal insulation, *see* Insulation.
- Thermal manikins, *see* Manikins (space).
- Thermal protection, materials, sensors to obtain in-flight ablation measurements, 1494
- Thermal radiation:  
 black coatings characteristics, effects of simulated space environment, 16980  
 production of choriorretinal lesions, study, 10231  
 properties, precise determination, procedures, 6921  
 property measurement techniques, 9945
- Thermal radiation—Continued  
 radiant heat transfer in fuel region of gaseous nuclear rocket engine, 5183  
 studies of ablating bodies in ballistic range, survey, 5234  
 threshold distances for retinal burns from low-yield nuclear detonations, 69
- Thermal shock:  
 resistance for built-up membranes, 15584  
 resistance of ceramic coating, increases with intergranular metal phase, 6811
- Thermal stresses, *see* Strains and stresses.
- Thermionic converters, diffusion theory, USSR study, 15390
- Thermionic diodes:  
 chemical regeneration of emitter surface increases life, 1445  
 controlled power system, development, 1433
- Thermionic emission:  
 formation of thermions by emitters, USSR study, 4976  
 surface preparations improve, 2633
- Thermionic scanner pinpoints work function of emitter surfaces, 1449
- Thermocouples:  
 boiler instabilities due to coupling feed system and subcooled region, 9917  
 electrically checked while connected to data system, 6785  
 fast response measurement of temperatures in cryogenic gases, study, 6820  
 installation in hard-to-get-to places, 6813  
 junction locations, accurate depth control provided, 6794  
 microminiature, monitors own installation, 1460  
 modified, effective from  $-250^{\circ}$  to  $5000^{\circ}$  F, 2626  
 multipurpose instrumentation cable provides integral thermocouple circuit, 8391  
 parameters of thermogalvanic couples, USSR study, 1241  
 sensing disks for slug-type calorimeters, invention for higher temperature stability, 11482  
 thermocouple-flexible cable connector insulator is highly reliable, 8403  
 wire size and configuration, effect on internal temperature measurements in charring ablator, 6864
- Thermodynamics:  
 data—  
 Fortran program for calculation, 15566  
 molybdenum carbide and tantalum carbide, 1410  
 equilibrium in prebiological atmospheres of C, H, O, N, P, S and Cl, 11426  
 freezing point depression and heat capacity of soils, relationships, 8878  
 hydrate and freezing processes, 6446  
 properties of—  
 fluids, calculating from empirical equation of state, 9776  
 forsterite and serpentine, 11387  
 gases, equilibrium, programs for computing, 9898  
 hydrates of beryllium sulfate at low temperature, 9777  
 liquid metal solutions in sodium-mercury system, 9910  
 lithium-aluminum silicates, 14355  
 nitrogen gas, zero pressure, 6636  
 nitrogen, seeded with alkali-metal vapor mixture, equilibrium at high temperatures, 16974  
 potassium to  $2100^{\circ}$ K, 16999  
 saturated liquid parahydrogen charted for important temperature range, 17928  
 solid palladium-silver alloys and other alloys investigated by torsion effusion technique, 17924  
 van der Waals fluid in 2-phase region, 11379

**Thermodynamics—Continued**

- properties related to expansion of 2-component gas, 11449
- relations between thermodynamics, information and thought described, USSR, 1215
- Thermoelectricity:**
  - solar direct-energy conversion systems operating between 1.0 and 0.1 astronomical unit, 6856
  - thermoelectric metal comparator determines composition of metals and alloys, 8387
  - thermoelectric properties of yttrium-groups 5 and 6 binary and ternary compounds, 16867
- Thermography of human dentition, 17357
- Thermogravimetric analysis, kinetic parameters of 6 ablation polymers, 9896
- Thermogravimetry, dynamic, effect of inorganic salts on pyrolysis of wood, alpha-cellulose, and lignin determined, 8103
- Thermoluminescence, see Luminescence.
- Thermometers, resistance thermometer has linear resistance-temperature coefficient at low temperatures, 6775
- Thermometry, high temperature, seminar, 129
- Thermonuclear reactions, see Nuclear reactions.
- Thermophysical properties of—
  - low-density phenolic-nylon ablation material, 14377
  - saline water systems, 12643
  - selected gases below 300° K, 6635
- Thermoplastics, see Plastics.
- Thermosetting plastics, see Plastics.
- Thermostats, phase transitions, use to improve thermostatic control of instruments, 9924
- Thermstructural panels, see Panels and paneling.
- These are yours!, 15815
- They need to learn, 7878
- Thibau, Patrick A., State legislation and regulations involving ionizing radiation, 7093
- Thinning loblolly pine from above and below, 8095
- Thiophenes, see Butylthiophenes.
- Thioscelis, see Microlepidoptera.
- Third International, see Communist International.
- Third wave, America's new conservation, 8207
- announcement and order form, 10035
- This is Cooperative Extension, 17328
- This is the Army, 11989
- This new ocean, history of Project Mercury, 8438
- Thixotrophy, suspensions, use of hysteresis loop method to study, 10005, 11679
- Thomas, A. M., drawings of micrometer U-tube manometers, 17040
- Thomas, Abraham E., soil survey of Grenada County, Miss., 11805
- Thomas, Albert, memorial services, 246
- Thomas, Charles M., African national developments, 4154
- Thomas, Danny, in dramatic motion picture about medical self-help training, announcement of if disaster strikes, 13077
- Thomas, David F., jet shoes, extravehicular space locomotion device, 8483
- Thomas, John R.:
  - analysis of 15  $\mu$  infrared horizon radiance profile variations over range of meteorological, geographical, and seasonal conditions, 8418
  - location of reference horizons in earth's horizon radiance profile, 9802
- Thomas, Mary F., relief, 7642, 12349
- Thomas, Ronald L., turboalternator speed control with valves in 2-spool solar-Brayton system, 5257
- Thomas, Rose, relief, 606, 7622

- Thompson, Charles J., sulfur compound characterization studies on high-boiling petroleum fractions, 2583
- Thompson, Clark S., response of migrating adult salmonids to orifices, etc., 14066
- Thompson, Fletcher, contested election, dismissal, etc., report, 12270
- Thompson, J. F., aerodynamic characteristics for cone-cylinder-frustum-cylinder configurations, 9804
- Thompson, John W.:
  - addresses, etc.—
    - June 1, 1966, 12459
    - Nov. 16, 1966, 4703
  - economic aspects of unhairing hides at packinghouse, 11934
- Thompson, M. C., jr., atmospheric errors in microwave azimuth measurements, 2224
- Thompson, William C., dynamic model investigation of rough-water landing characteristics of spacecraft, 9871
- Thompson, William H., transportation factors in marketing soybeans, cottonseed, and their products, 16546
- Thompson, William M., jr., investigation of response of scaled model of liquid-propellant multistage launch vehicle to longitudinal excitation, 11522
- Thompson, William W., jr., job printing shop, 15731
- Thompson, Cape, euryhaline copepod genus Eurytemora in waters, 6943
- Thoreau, Henry D.:
  - 5-cent commemorative postage stamp—ceremony (remarks), 14611
  - poster, 11693
- Thorium:**
  - fuels for heavy water organic cooled reactor, evaluation, 5764
  - geologic controls affecting amount in monazite, 17826
  - uranium and thorium-bearing minerals, glossary, 17819
- Thornton, Henry T., jr., field sonoscope tests of concrete, 10-year summary of results, 7934
- Thornton, Robert L., high school topic 1967-68, selected excerpts and references, 10688
- Thornwall, Joseph C., solid-state wide-range low power camera timer for space applications, 5240
- Thorpe, Merle L., production of superheated hydrogen plasma using induction heating of cold plasma and DC plasma enhancement, 5166
- Thorson, Kenneth N., Miller Freeman, fishery research of U.S., 11076
- Thought:**
  - processes, physico-chemical modeling, USSR study, 1272
  - relations between thermodynamics, information and thought described, USSR, 1215
- Thousand partnerships, 4722
- Three-axis attitude and direction reference instrument has only one moving part, 6806
- Three-body problem:
  - restricted—
    - applicable to new Lie series method of numerical integration of ordinary differential equations, 9877
    - of celestial mechanics, periodic solutions, 9813
    - plane circular, closed collision paths, 9922
    - stellar, application of Krylov-Bogolubov method to solution, 2695
- Three-dimensional analysis of tangential yo-yo despin device on rotating body, 6888
- Three-phase inverters, see Inverters.
- Thresher (U.S.S.):
  - civilians who lost their lives aboard submarine, furnish memorial headstones or markers, hearing, 715

# INDEX 1967

- Throat, diseases, incidence in 400 space and test pilot candidates, 14781
- Thrust:
- ablative-material thrust chambers as components of storable-propellant rocket engines, evaluation, 15553
  - augmentation characteristics of jet ejectors, 10290
  - bounded magnitude, use of impulsive solution in optimum trajectory problems, 12963
  - device measures reaction engine thrust vector deviations, 6804
  - high, Jupiter round-trip trajectories, 5233
  - low, interplanetary vehicles, celestial-inertial navigation, error analysis, 8424
  - vector control, proportional solid propellant secondary injection, 2604
- Thrust axis, control during planar ascent from lunar surface to circular orbit by manual method, 1490, 14449
- Thrusters, subliming-solid-propellant thruster systems for attitude control of spacecraft, performance, 6884  
*see also* ion thrusters.
- Thulium trichlorides, heats of formation, 6683
- Thunderstorm:
- circulations and turbulence studies from aircraft and radar data, 10966
  - left moving, Apr. 23, 1964, study, 10965
  - motions, heights, and circulation, notes, 6221
  - turbulence in clear air, 6222
- Thurston, Charles H., relief, 793, 9259, 13501, 13566
- Thyroid gland, pathological effects of thyroid irradiation, 11029
- TIAS series, 1634-42, 2885-2935, 3978, 5532-52, 7151-93, 8723-50, 10100-104, 11833-874, 13144-154, 14683-689, 15765-804, 17227-249, 18233
- TIB series, 15743
- Tibet, central, vegetation, Chinese studies, 6558
- Ti-chih lum-p'ing (Chinese periodical): translation, 1161
- Ticks, eradication activities, 1966 report, 18  
*see also* Fowl ticks.
- Tidal waves, *see* Tsunami (tidal wave).
- Tide of fortune, 17907
- Tides:
- current charts, Charleston Harbor, S.C., 14874
  - current tables—
    - Atlantic Coast of North America, 215, 16086
    - Pacific Coast of North America and Asia, 16087
  - FORTTRAN program for calculation of hourly values of astronomical tide, etc., 9428
  - tables—
    - central and western Pacific Ocean and Indian Ocean, 14875
    - Europe, west coast of Africa, and Mediterranean, 12120
    - North and South America—
      - east coast, 12119
      - west coast, etc., 7555
    - tide observers in seismic sea water warning system, wave reporting procedures, 4412
  - Tidewaters, *see* Tides.
  - Tilbury, R. S., activation analysis with charged particles, 1793
  - Tiles, wood-brick, for paneling, 14133
  - Ti-li chl-k'an (periodical): translations, 1317
  - Ti-li hsueh-pao (periodical): translations, 1274, 4943
  - Ti-li-hsueh tzu-liao (periodical): translations, 1312
  - Tillage, alluvial soil in sugarcane area of Louisiana, deep-tillage investigations, 1672
  - Tillamook County, Oreg., Bureau of Land Management project, analysis of 2 logging road standards, 11118
  - Timber:
    - allowable cut, computer program for calculating by area-volume check method, 8080
    - black walnut, planting for timber, 32
    - California, timber volume, and commercial forest area, 4859
    - damage from drainage at wetland road crossings, 14097
    - farm timbers, preservative treatment, 10165
    - Federal, need to resolve differences in procedures used by management agencies in appraising timber offered for sale, Forest Service, Indian Affairs Bureau, and Land Management Bureau, GAO report, 4871
    - herbage-timber, differences in relationships between thinned and unthinned ponderosa pine stands, 2316
    - Maryland resources, 17808
    - national forest—
      - buying, 11103
      - sale accomplishments, 9531
      - story of a sale on a national forest, 15868
    - national survey cost limit, increase ceiling, report, 10749
    - North Carolina, resources, survey, 2338
    - owner and his Federal income tax, 10161
    - plantation timber, 1965, on Island of—
      - Hawaii, 4858
      - Kauai, 16665
    - relationship between timber and cattle production on ponderosa pine range, Wild Bill Range, 16652
    - southeastern area, State and private forestry, 17798
    - stumpage prices for sawtimber sold from national forests (periodical), 3909
    - Texas, eastern, 1964 harvest, 2323
    - tract development, planning, 11137
    - Virginia's timber resources, survey report, 15290
    - young-growth stands, slash and litter weight after clearcut logging, 8087
  - Timberlands, Louisiana pine plantations, fertilization uneconomic for forage improvement, 14117
  - Time:
    - integration of control equations and problem of small time constants, 8505
    - leisure, and computer, crisis of modern technology (remarks), 5799
    - notation, strip chart recorder, technique, 12912
    - variant data analysis, automatic system, 4748
    - see also* Hours of labor.
  - Time deposits:
    - and financial flows, 4791
    - and savings deposits, changes, 11049, 14039, 16589
    - higher reserve requirements, extend act—
      - hearings, 17595
      - law, 17541
      - report, 13816
    - insured banks, temporary ceilings on interest rates, report, 648
  - Time-optimal response of feedback control systems by means of discontinuous rate compensation, 16898
  - Time series:
    - computer programs perform spectral analyses of up to 7 time series, 2661
    - economic, X-11 variant of census method 11 seasonal adjustment program, 5902
    - Time signals standard service provided by NBS stations WWV, WWVH, WWVB, and WWVL, 12979

- Timers:**  
durable status of imports from insular possessions, amend tariff schedules—law, 509  
report, 911  
ordnance, symposium, proceedings, 104  
solid-state wide-range low power camera timer for space applications, 5240  
**Timing devices, see Timers.**
- Timisoara, Rumania, center for technical research, activities, 1191**
- Timmins, A. R., effectiveness of systems tests in attaining reliable earth satellite performance, 2697**
- Timmins, Merrill S., jr., fire resistant construction of home, farm buildings, 15849**
- Timmons, C. O.:**  
effect of liquid structure on contact angle hysteresis, 9987  
study of adsorption of carbon-14 labeled stearic acid on iron, 14595
- Timmons, Durward E., instrumentation for isokinetic air sampling at altitude, 67**
- Tin:**  
alloy sheet, uniaxial and biaxial fracture toughness, 11552  
mineral industry surveys, monthly, 3935  
minerals yearbook chapter, 2591  
tin-lead solders and solder joints, tests, 11388
- Tinker Air Force Base, employees, relief, 296, 565, 813**
- Tintle Valley, geologic interpretation of gravity and aeromagnetic maps of area, 8164**
- Tip moths:**  
heavy attacks reduce early growth of loblolly and shortleaf pine, 14120  
Nearctic parasites of genus *Rhyacionia*, key, with species annotations, 16649  
ponderosa pine, description, control, etc., 4820
- Tip turbine fans, see Turbine fans.**
- Tiphia, see Wasps.**
- Tiphidae, see Wasps.**
- Tippah County, Miss., soil survey report, 1612**
- Tipplin, Robert B., heavy liquid cyclone concentration of minerals, 12822**
- Tips, guide to placement of NYC enrollees with epilepsy, 2488**
- Tips (monetary), see Gratuities.**
- Tires:**  
automotive—  
manufacture and distribution, economic report, 4798  
savings through use of formal advertising in contracting by GSA, GAO report, 9557  
cord and fabrics, current industrial reports, 3170  
excise tax, impose at manufacturer-owned retail outlet—  
law, 360  
report, 2094  
Federal item identification guides for supply cataloging, supplements, 3285  
pneumatic—  
and solid, Federal item identification guide, 10896  
fore-and-aft stiffness characteristics, 16919  
inner tube, Federal item identification guide, 15185  
performance on soft soils, dimensional analysis, 16527  
pressure distribution curves applicable to, experimental study, 11401  
tire research related to safety (lecture), 9946  
used motor vehicle, rebuilding by civil agencies, GAO review, 14162
- TIROS (television infrared observation satellite), see Satellites.**
- Tison, James C., jr.:**  
address, June 16, 1967, 12116
- Tison, James C., jr.—Continued**  
photogrammetric research work on Gulf Stream, 5941
- Tissue cultures:**  
cell tissue and organ culture, 2d decennial review conference, 18172  
interaction between polyoma virus and cells of animal tissues in culture, USSR study, 6543
- Tissue paper, see Facial tissue.**
- Tissues:**  
amines, alterations by toxic decaborane-14 and pentaborane-9, modified by hydrazines and propynylamines, studies, 7357  
antigens, changes during process of experimental carcinogenesis, 1156  
living, effect of chemically inert gases on oxygen consumption, 5708  
oxygenation during hemorrhage in dogs breathing 1 and 3 atmospheres of oxygen, 15895  
postmortem, and fibrinolytic blood, procurement and utilization, 11289  
transplantation, experimental, USSR studies, 9643
- Titanium:**  
alloy sheet, uniaxial and biaxial fracture toughness, 11552  
alloys—  
chemical milling solution reveals stress corrosion, 16957  
inaqueous environments, crack propagation, delayed failure, and residual static strength, 6872  
initial load and exposure to moderately elevated temperature effect on room-temperature fatigue life of Ti-8Al-1Mo-1V sheet, 14464  
nitrogen alloys, electrorefining, 2582  
oxygen alloy system and titanium chlorides in molten sodium chloride, reaction rates, 14359  
salt water stress-corrosion cracking characteristics, 17091  
Soviet research, 1162  
stress-corrosion cracking of Ti-6Al-4V alloy in methanol, 6900  
Ti-8Al-1Mo-1V (duple x-annealed) specimens having various widths, fatigue crack growth, investigation, 8494  
Ti-8Al-1Mo-1V simulated wing structure, fusion welded, fatigue behavior, 16905  
decreasing, to minimize stress corrosion, 11476  
identification marking, Federal standard, 8008  
ingot and mill products, current industrial reports, 3169  
mineral industry survey, quarterly, 3936  
minerals yearbook chapter, 8380  
sandwich construction, edgewise compressive properties at elevated temperatures, 8102  
tanks, stress corrosion failure retarded with glass bead shot peening, 14413  
titanium and alloys produced with electrolytic methods, 2579
- Titanium chlorides, titanium-oxygen alloy system in molten sodium chloride, reaction rates, 14359**
- Titanium hydride, aluminum-titanium hydride-boron carbide composite provides lightweight neutron shield material, 16878**
- Titrimetry, see Volumetric analysis.**
- Titus, Joan B., subject index, etc., of technical conference papers on plastics, 981, 17702**
- Tlwa Indians of Texas, recognize as band of American Indians, report, 14967**
- To care for him who shall have borne the battle (medical care of veterans), 12318**
- To choose or not to choose, 17298**
- To grow the 2d blade of grass, 17332**

To the first Americans, report on Indian health program of Public Health Service, 11761

**Tobacco:**  
 acreage allotments—  
   facilitate computation—  
     law, 17551  
     reports, 15127, 16274  
 lease and transfer, remove limitation—  
   hearings, 10624  
   law, 12183  
   reports, 10573, 13803

burley—  
 acreage-poundage referendum, 5677  
 light air cured, market review, 1966, crop, 13888

child labor use in Kirgiz tobacco fields, USSR article, 1172

commercial farms, costs and returns, North Carolina, Coastal Plain, 13943

crop summary, 3938

fire-cured and dark air-cured, market review, 1966 crop, 10877

fire-cured, etc., acreage allotments, and acreage-poundage quotas, transfer—  
 hearings, 10624  
 law, 13532  
 reports, 10574, 13804

flue-cured—  
 market review, 1966 crop, 9354  
 referendum, 14758

foreign agriculture circulars, 3345

loose leaf and acreage allotments, hearing, 2038

Maryland—  
 acreage-poundage quotas, transfer—  
 hearings, 10624  
 law, 9036  
 reports, 7666, 7782  
 light air-cured, market review, 1966 crop, 15177

mosaic virus, problem of possibility of infecting animal cells with ribonucleic acid, USSR study, 6486

production, marketing, etc., in U.S., 1706

products, excise tax exemption by IRS for certain consumers, GAO review, 9554

statistics—  
 annual report, 7302  
 summary, 6453  
 stock report, 3940  
 tax guide, 3941, 4919, 11226, 15338, 16724

tobacco and tobacco products, trade and tariff information, summaries, 7203

tobacco-livestock, commercial farms, costs and returns, Bluegrass area and Pennyroyal area, Ky.-Tenn., 16490

tobacco situation (periodical), 3939

Tobacco budworms, *see* Budworms.

Tobacco Cooperative Stabilization Corporation, Flue-cured, *see* Flue-Cured Tobacco Cooperative Stabilization Corporation.

Tobago, *see* Trinidad and Tobago.

Tobias, Jerry V., table of intensity increments, 136

Tocco, Giuseppe, relief, 12220, 13478, 13736

Today's science, tomorrow? (remarks), 135

Todd, E. L.:  
 neotropical agariastine moths (Lepidoptera: Noctuidae), 5312  
 noctuid moths of American genus *Eusectis* Hübner, 5306

Todd, James A., jr., relief, 343

Todd, Ruth:  
 recent Foraminifera from Gulf of Alaska and southeastern Alaska, 12614  
 smaller Foraminifera from Guam, 1119

Togo:  
 amity and economic relations, treaty, 8743  
 labor conditions, 2518

Toilet articles, Federal item identification guides for supply cataloging, supplements, 3292

Toilet bowls, trim for water-closet howls, standard of trade, 5287

Toilet paper, suitability of Appalachian woods for sanitary tissue, 8100

Toiletries, *see* Toilet articles.

Tokio, Takasi, Pacific tunicata of United States National Museum, 9950

Tokyo, Japan, U.S. trade center, 12654

Tolbutamide, influence on cholinesterase activity of digestive tract, Rumanian study, 1261

Toledo, Ohio, area wage survey, 11321

Tolerance (engineering):  
 copper and copper base alloy mill products, Federal standard, 2268, 16601  
 pressure probe compensates for dimensional tolerance variations, 6764

Tolland County, Conn., soil survey report, 7138

Tolles, N. Arnold, post-layoff experience of displaced carpet-mill workers, 1360

Tolls:  
 Montreal/Lake Ontario section, St. Lawrence seaway, agreement with Canada, 11872  
 relationship to Federal-aid highway program—  
   hearings, print additional copies, report, 643  
   report, 14989

Tomatoes:  
 plants, variations in respiration process during gamma radiation, 8511  
 use of ozone in ripening rooms, 5

Tombstones, civilians who lost their lives aboard U.S.S. Thresher, furnish headstones or markers, hearing, 715

Tompkins, Stephen S., parametric study of low-density charring ablator, 2713

Tones, reproduced photo, slide rule-type color chart predicts, 11436

Tonga Islands, Geniostoma, description, title page and index, 17048

Tonto National Monument, general information, 11618

Tooele County, Utah, geologic interpretation of gravity and aeromagnetic maps of Tintic Valley area, 8164

Tools:  
 aircraft maintenance, Army technical manual, 4218  
 Marmon clamp installation tool, design, 9860  
 sampling tool to extract cores from baled hay or straw for analysis, 13201  
 tool and die industry, problems, report, 4514  
 welded aluminum jigs and tool structures, heat treatment stabilizes, 2625  
*see also* Cutting tools—Hand tools—Machine tools—Measuring instruments.

Topographic maps, *see* Maps and charts.

Topography:  
 air pollution study, 11739  
 lunar, planetary, and solar, Project Tech Top, study, 5163

Topsoil, loss, slows slash pine seedling growth in Florida sandhills, 14119

Tornadoes:  
 general description, safety measures, etc., 6230  
 safety rules, 7938, 13992  
 statistics, 6231  
 tornado watch, what it is, how prepared, etc., 4749

Toroidal rings, *see* Rings.

Toroidal shells, *see* Shells (toroidal).

Torphy, Daniel E., effects of short-term bed-rest and water immersion on plasma volume, etc., 7345

Torque:  
 bearing, and fatigue life studies with several lubricants, 11509  
 measurement of extremely feeble torques on massive bodies, 2696



## Torque—Continued

rotor air loads, blade motion, and stress caused by transient inputs of shaft torque as related to stoppable rotor operation, 13308

Torrence Marvin G., concentration measurements of injected gas in supersonic stream, 8489

Torrens, Robert C., hops industry of United Kingdom, 8047

Torres, Rafael P. Martinez, *see* Martinez

Torres, Rafael P.

Torrey, Volta, science and the city, 6432

Torrice, AIC 78 B, lunar chart, 7332

Torsion, *see* Strains and stresses.

Tortricidae, *see* Microlepidoptera.

Torus, superconducting, potential and magnetic moment, in nonaxial uniform magnetic field, 9986

Touche division, *see* Walla Walla project.

Tourism, *see* Tourist trade.

Tourist trade, tourism and recreation, state-of-the-art study, 13937

Tourists, industrial plants offer tours for foreign visitors (remarks), 1959

*see also* Visitors.

Toweling, suitability of Appalachian woods, 8100

Towels, current industrial reports, 4339-40, 12080, 17435

Tower antenna structures, USSR, 1304

Town, Joseph W.:

batch and continuous-circuit, beneficiation of western phosphate ores, 9781

liberation and concentration of phosphate minerals, etc., 14348

recrystallization of chrome spinel, 9775

Towns, *see* Cities and towns.

Townsend Cromwell (oceanographic ship):

cruises, trade wind zone oceanography

pilot study, 16627-632

Townshend, Jesse F., jr., airman, official

magazine of Air Force, 3019

Toxicity, *see* Poisons.

## Toxicology:

acute hydrazine toxicity in mice, toxicologic studies, 4183

boron hydrides, 7357

hydrazine, effect upon renal blood flow,

preliminary study, 11967

manual, USSR, 17882

monomethylhydrazine, effects upon renal

function, 15901

new industrial chemicals, USSR study,

11284

radiotoxicological aspects of radioactive

contamination, Rumanian study, 2464

## Toxins:

## Clostridium—

bacteria, effect on hemolytic and lecithinase activity, USSR study, 15388

microbiological studies, 11290

Toya, Theodora, *see* Bezates, Theodora.

TPI, the progress interview, suggestions to

help men in management in counseling

people about their work, 6373

## Trace elements:

agriculture and medicine, USSR studies,

6542

in experimental and clinical medicine,

USSR book review, 1344

rock, common types, importance in neu-

tron-induced radioactivity calculations,

1799

trace characterization chemical and phys-

ical methods, 12985

*see also* subject.

Trace hydrazines in aqueous solutions ac-

curely determined by gas chromatog-

raphy, 15550

Trace levels of metallic corrosion deter-

mined by emission spectrography, 6850

## Tracer studies:

absorption and distribution of  $C^{14}$  labeled

tetramine in relation to its possible use

in animal damage control, 4851

## Tracer studies—Continued

compartments, pools, and spaces in medi-

cal physiology, symposium, 15359

ergodic properties of system, 13337

influence of parent and daughter decay on

tracer diffusion profiles, 14489

krypton-85, development as universal

tracer, final report, 13335

medicine, tracer theory for analysis of

whole-system retention data, turnover

compartmentalization, 12012

Trachyleberididae, *see* Crustaceans.

Track and field dispute, hearings, 17646

Trackage, Princeton dynamic model track,

general description, 7409

critical task for man-machine research

related to operator's effective delay

time, 1426, 5174

electric drive system, low speed, long term,

has zero backlash, 14426

parameter system, human performance

measured with version of crossover

model, 17944

probability of target lock-on by automatic

ranging during automatic search, USSR

study, 11283

spacecraft tracking and communication,

NASA facts, 16922

system, precision CW laser automatic,

investigated, 6791

USSR satellite tracking equipment, de-

scription, 9611

vestibular system and human dynamic

space orientation, 1428

*see also* Radar tracking—Infrared Ac-

quisition and Tracking System.

## Tracking stations:

agreement with—

Great Britain, 2911, 5536, 8750

Spain, 11833

Antigua, agreement with Great Britain,

8749

facility on Island of Mahé (Seychelles).

agreement with Great Britain, 11847

Tractor loaders, *see* Loaders (mechanical).

## Tractors:

current industrial reports, 3169, 5875-76

except garden tractors, current industrial

reports, 16004

farm, demand in United States, regression

analysis, 2169

Federal item identification guides for sup-

ply cataloging, supplements, 3285

truck tractors, commercial, standard mod-

els and special equipment requirement,

military standards, 15190, 15192,

15195-196

USSR industrial development, tractor in-

dustry, translations, 4015

*see also* Farm implements and machinery.

Tracy, P. H., layouts and operating cri-

teria for automation of dairy plants manu-

facturing ice cream and ice cream nov-

elties, 1702

Trade, *see* Commerce—Retail trade—Service

trades—Wholesale trade—also names or

classes of commodities.

Trade agreements, *see* Commercial treaties.

## Trade centers:

U.S., Frankfurt, London, Milan, Stock-

holm, Bangkok, Tokyo, 12654

U.S., Stockholm, Sweden, Mar. 30-Apr. 7,

1967, 4921

Trade expansion act of 1962, *see* Commercial

treaties.

Trade fairs, *see* Fairs.

Trade marks, *see* Trademarks.

Trade missions, sell your products with busi-

ness proposals carried abroad by U.S.

trade missions, 6466

Trade Negotiations, Office of Special Rep-

resentative, *see* Special Representative for

Trade Negotiations.

Trade policy, *see* Commercial policy.

Trade practices:  
 medical restraint of trade act, hearings, 17661  
 rules, proposed, 3779  
 unfair, affecting producers of agricultural products, control—  
 hearings, 10800  
 report, 15086  
 Trade unions, *see* Labor unions.  
 Trade wind zone oceanography pilot study, Townsend Cromwell cruises, etc., 16627-632  
 Trademarks:  
 cases, appeals, amend U.S. Code, report, 877  
 code of Federal regulations, 9477  
 decisions, weekly, 3650  
 decisions, yearly, 1966—  
 departmental edition, 8606  
 document edition, 7597  
 index, 10021  
 international cooperation imperative (address), 5370  
 law, revision, subcommittee work, reports, 9285, 13789  
 lists, in official gazette, 3650  
 publications, price list, 5418  
 questions and answers, 14602  
 trademark reform legislation on international and national level (address), 14604  
 U.S. customs information, 10884  
 Trades, *see* names of trades and types of workmen.  
 Tradesman, 1 & C, Navy training course, 11665  
 Trading with the enemy:  
 act, amend, hearing, 741  
 administration of act, investigation—  
 extension, report, 4622  
 report on findings, 13831  
 Traffic:  
 accuracy of traffic assignment when using capacity restraint (paper), 5478  
 carload waybill statistics, 1964, commodity classes, 6473  
 international maritime, convention on facilitation, report, 6065  
 piggyback characteristics, 8233  
 St. Lawrence Seaway report, 8673  
 traffic systems, research and development, program review meeting, proceedings, 11767  
*see also* Air traffic—Transportation.  
 Traffic control, *see* Air traffic.  
 Traffic decisions, *see* Interstate Commerce Commission.  
 Traffic safety, *see* Safety of life.  
 Trailblazer, *see* Rockets.  
 Trailers:  
 cargo trailer, rigging for airdrop, 15949  
 current industrial reports, 3169  
 District of Columbia registration, facilitate addition of name of spouse of owner—  
 law, 12178  
 reports, 13640, 12382  
 Federal item identification guides for supply cataloging, supplements, 3285  
 house, and mobile dwellings, uniformed services members, provide transportation costs, amend U.S. Code, reports, 629, 657  
 Irrigation pipe trailer, farm building plan, 1707  
 M101, ¾-ton cargo trailer, rigging for airdrop, technical manual, 8888  
 piggyback, heavier loading for watermelons, damage and cost reduction study, 10154  
 temperatures, relative humidity, and atmosphere composition in trailer loaded with lettuce, 15825  
 truck, current industrial reports, 12082  
 Trails:  
 for America, report on nationwide trails study, 5367

Trails—Continued  
 nationwide system, establish, hearings, 9320, 10657  
 Trainee's guide for electronics technicians, class C, AN/SRC-20, AN/SRC-21, radio sets, 8582  
 Traineeships:  
 grants for advanced training of allied health professional personnel, law, 463  
 professional health personnel under public health program, 15713  
 Public Health Service awards, 1966 funds, 7086  
 Training:  
 afloat training guide, Naval Reserve Fleet Divisions, etc., 7017  
 cuing techniques, 15635  
 community work and training program, message from the President, 7606  
 enactments, 89th Congress, 2d session, 6121  
 Federal employees, task force report, 7046  
 annex, 10030  
 Government employees training act, 1958, implementation, effectiveness, report, 10619  
 homemaker-home health aide in personal care, 15714  
 laws, text, 6122  
 major programs providing Federal funds for employment and training, 17416  
 manpower development and training act—  
 amendments of 1966, law, 496  
 as amended, resources, utilization, etc., 1350  
 earnings mobility of MDTA trainees, 11296  
 good training, good jobs, MDTA Detroit Skills Center, 16500  
 handbook chapter, training project development, 15221  
 report of Secretary of Health, Education and Welfare Dept., 9578  
 summary, 6594  
 medical, in Veterans Administration, major contribution to Nation's health resources, 8782  
 medical training costs too much, 10934  
 methods in vocational rehabilitation services, report, 11893  
 needs of States and local governments in water pollution control, report, print as Senate document, report, 16362  
 northwest training centers and programs, provide central location, hearings, 15156  
 oceanographic and hydrographic systems, 11670  
 Peace Corps advance training, program for college juniors, 5373  
 personnel, PACAF basic bibliographies, 10230  
 professions, opportunities for women, selected readings, 1669  
 programs, impact on public assistance caseloads, 3406  
 Public Health Service grants, 1966 funds, 7086  
 team training, 18109  
 training and demonstration projects, 2973  
 training and technology (TAT) in Tennessee, *see*, new skills for underemployed, 16792  
 work experience and training program for unemployed, 12482  
*see also* Education—Employees training—  
 Military education—Naval education—  
 Vocational education—*also* subjects.  
 Training aids, *see* Training devices.  
 Training Center, Financial Management and PPBS, *see* Financial Management and PPBS Training Center, CSC.  
 Training devices:  
 and aids, Federal item identification guides for supply cataloging, supplements, 3293

- Training devices—Continued  
guide, Naval Training Device Center, 8600  
revised pages, 15639  
naval training equipment and individual  
differences, study, 9980  
tactical decision making shifts, generalized,  
research, 9982  
training devices developments (Navy peri-  
odical), 18115
- Training Materials and Aids Committee, In-  
stitute on Rehabilitation Services, report,  
11893
- Training of employees, *see* Employee train-  
ing.
- Trains, *see* Railroads.
- Traits of character, *see* Character.
- Trajectories:  
analysis, papers, compilation, 12881  
atmospheric, of 413 precisely reduced  
photographic meteors, analysis, 18204  
ballistic, minimal energy, for missions to  
Mercury, 9886  
ballistic reentry, at velocity of 50,000  
f.p.s., 12932  
endpoint problems, computer program for  
mass optional solutions, 16953  
Jupiter high-thrust round-trip, 5233  
lunar, minimum fuel ascent from surface,  
16994  
meteoric, automatic-reduction procedure  
for photographic data, 15510  
optimal, explicit solution for Lagrange  
multipliers on singular subarc, 16982  
optimal, treating with restricted segments,  
9805  
optimization for Apollo-type vehicle under  
entry conditions encountered during  
lunar return, 9919  
optimum, problems, with bounded thrust  
magnitude, use of impulsive solution,  
12963  
optimum transfer, between 2 terminal  
points for minimum initial impulse un-  
der arbitrary initial velocity vector,  
1427
- PRESTO, program for rapid earth-to-space  
trajectory optimization, 5157, 5178A
- PRESTO II, digital computer program for  
optimization, 6717
- RONDOVU/PRESTO, program for rendez-  
vous mission optimization, 5179
- round-trip, to moons of Jupiter, 18017
- space trajectories program for IBM-7090,  
15524
- space vehicle flight control systems, analy-  
sis and design, equations, 12872
- STOP, computer program for supersonic  
transport optimization program, 11415
- use of Jupiter gravity turns for tailoring  
trajectories to Saturn with considera-  
tion of launch opportunities, 2692  
*see also* Lagrange multipliers.
- Tran Van Nguyen, relief, 13774
- Tranquility, Calif., early skeletons, 1531
- Trans World Airlines, Inc., aircraft accident,  
4370
- Transcribers, confidence in relation to accu-  
racy, 5751
- Transducers:  
dynamic-pressure, system enables more  
complete calibrations, 9854  
electromechanical pressure, performance-  
testing, methods, 6923  
force, resonance, damper reduces effects,  
5216  
heat flux, long duration, theory, etc., 6777  
measures embedment stresses in electronic  
modules, 17978  
piezoelectric, mechanical and electrical  
checkout while installed in system, 2658  
pressure, automated tester permits pre-  
cise calibration from 0 to 1050 psi,  
15493  
respiration rate, for aircraft environments,  
development, 18044
- Transducers—Continued  
strain gage pressure, life cycling test,  
18083
- Transformations (mathematics):  
discrete finite Fourier transforms, tutorial  
approach, 15638  
group method, utilized in solid propellant  
rocket motor performance computer pro-  
grams, 1483
- Transformers, *see* Electric transformers.
- Transient analysis generator (TAG) simu-  
lates behavior of large class of electrical  
networks, 16954
- Transistors:  
and silicon controlled rectifiers used by  
pulse generator produces high current  
pulses with fast rise and fall times,  
1455  
computer program searches characteristic  
data, 2654  
field effect—  
equivalent circuit for computer simula-  
tion, 6644  
improve buffer amplifier, 17961  
insulated gate, multiplexer uses, 18001  
micropower logic circuits, improved, 14461  
one-transistor circuit boosts pulse ampli-  
tude, 1464  
space radiation equivalence for effects on  
transistors, 14380  
transistor biased amplifier minimizes diode  
discriminator threshold attenuation,  
16883
- Transit systems, *see* Local transit.
- Transition elements, in ultra pure alkali  
metals, solubility studies, 1424
- Transitions:  
boundary-layer, on cooled 7.5° total-angle  
cone at Mach 10, 18021  
fixing for hypersonic flow, 18011
- Translating machines, scientific documenta-  
tion sponsorer by NSF, price list, 6916
- Translations:  
medical, bibliography, annual index, 14526  
National Institutes of Health—  
index, 1966 supplement, 15700  
Library, selected list, 3809  
neural sciences, bibliography, 17137  
price lists, selective bibliography of Gov-  
ernment translations, lists, 1933  
special foreign currency science informa-  
tion program, 1967 list in process,  
7551  
supplement, 17464  
technical, National Aeronautics and Space  
Administration, 5276-77, 6911-12,  
8509-512, 9920-28, 11560-573, 12972-  
976, 14500-504, 15582, 17017, 18057  
technical translations, bibliography (peri-  
odical), 3933
- Translator program converts computer print-  
out into Braille language, 11441
- Transmission lines, *see* Electric lines.
- Transmissions:  
atmospheric, of infrared radiation from  
2-5 microns for slant paths from 35,000  
ft. to upper limit of atmosphere, survey,  
12931  
helicopter, using solid lubricants, investi-  
gation, 8897  
quantum effects in information transmis-  
sion systems, 18057
- Transmittances, infrared spectral, of in-  
homogeneous gases, calculation, 5218
- Transmitters, VHF-UHF, dual-channel, for  
Gemini experiment D-14, 10004
- Transonic flow, *see* Flow.
- Transpiration cooling, *see* Cooling.
- Transplantation (physiology):  
organs and tissues, experimental, USSR  
studies, 9643
- Transplants, *see* Grafting (physiology).
- Transport aircraft, *see* Aircraft.
- Transport airplanes, *see* Airplanes.
- Transport equations, *see* Equations.

# INDEX 1967

- Transport of electrolytes through membrane systems, 15332
- Transport properties:
  - high temperature gases, experimental determination, 11412
  - ionic transport of polystyrenesulfonate model membranes, 9592
  - radiation transport and biological effects, special sessions, proceedings, 13314
  - wicks, vapor-chamber fin studies, 14379
- Transport vehicles, *see* Vehicles.
- Transportation:
  - agricultural cooperative, issuance of certificates of exemption on application and proof of eligibility, hearings, 947
  - air—
    - and water, south-central Alaska, 1964 earthquake effects, 12609
    - Army transport operations, 11986
    - integrated program of movement of persons on ground, in terminals, and through air (remarks), 8974
    - provided by Defense Dept. for dependent children of personnel, GAO review, 9545
    - regulate and promote (address), 8968
    - supplies and equipment, external-transport, procedures, Army technical manual, 8894
    - United States, today and tomorrow (address), 7523
  - airlift and sealift to South Vietnam, report, 10809
  - Alaska earthquake, Mar. 27, 1964, effects on transportation, communications, and utilities (series), 6402, 12609
  - allowances, uniformed services members for dependents' schooling—
    - hearings, 10636
    - reports, 10569, 12245
  - Army regulations, 4194, 14790
  - busing school kids to suburbs, 10928
  - census 1963—
    - commodity transportation survey—
      - commodity groups, 1856, 7472
      - shipper groups, 1855
      - shipper groups and production areas, 7473
    - final volumes, 1855-56, 4302, 7472-73
    - motor carrier survey, 4302
    - passenger transportation survey, 10343
    - civilian personnel, temporary duty, general information, etc., handbook, 6143
    - code of Federal regulations, 6296, 9484-85, 11047
    - commodity classification for transportation statistics, 13352
    - coordination of unlike modes, under Federal aviation act (remarks), 1898
    - costs of transporting food donated for overseas distribution, GAO review, 9550
    - defense depot, procedures, manual, change, 6145
    - defense, Military Traffic Management and Terminal Service, 16731
    - defense traffic management handbook, 10889
    - change, 6142
    - economics, monthly comment, 3973
    - index, 9605
    - factors in marketing soybeans, cottonseed and their products, 16546
    - Federal agencies, GAO guidance manual, 3370
    - high speed ground, research and development, report of panel, 13469
    - highway, task and study statements of national program for research and development, 8664
    - House Members, provide reimbursement of expenses—
      - law, 17540
      - reports, 14968, 15138
    - household goods, savings on volume movements from overseas to continental U.S., Defense Dept., GAO report, 8138
  - Transportation—Continued
    - HUD's urban programs help urbanites move into 21st century, 17837
    - industry, growth and prosperity vital for all (remarks), 1951
    - inter-modal system, containerization concept for moving shipments (remarks), 7968
    - international traffic of radioactive materials, 7432
    - international waterborne, convention of Mar del Plata, report, 6065
    - laws, compilation, 1990
    - lines—
      - Atlantic, Gulf, and Pacific Coasts, 13984
      - Mississippi River system and Gulf Intracoastal Waterway, 2219
    - liquefied hydrogen and helium, USSR study, 15403
    - marketing and transportation situation, 3543
    - mass transit, subsidy proposal for District of Columbia, hearing, 12293
    - migratory birds, 1967-68 Federal regulations governing, 16623
    - Alaska, 14061
    - military standard transportation and movement procedures, training program guide, 1763
    - milk, bulk and packaged, costs of transporting by truck, 8836
    - MILSTAMP, military standard transportation and movement procedures, introduction, 6150
    - MILSTEP, military supply and transportation evaluation procedures, 13925
    - NASA's mammoth transportation problems, rockets, etc., 9932
    - National Capital transportation act of 1965, amend, hearings, 15021
    - national policy (remarks), 8973
    - Northeast Corridor project, design for impact studies, 1938
    - ocean, faces challenge at home and abroad (remarks), 238
    - publications, price list, 10038
    - railroads—
      - computer engineering, USSR study, 1173
      - meteorological servicing, USSR study, 1182
    - recent trends (remarks), 236
    - schoolchildren in D.C., reduced fare, increase age, report, 16380
    - shifting emphasis and its implications for research (remarks), 4451
    - sick and wounded, Army field manual, 100
    - State and regional defense airlift planning, change, 9447
    - statistics in United States, annual report, 3974, 4929, 8236, 12657, 16729
    - systems, benefit-cost analysis, 1525
    - transportation proceedings (periodical), 7407
    - transportation series, Engineer Corps, 2219, 13984
    - troop movement guide, Army technical manual, 17387
    - urban mass, study, expenses, reports, 4594, 4625
    - urban mass transportation act of 1964, emergency provisions, temporary extension—
      - law, 13522
      - reports, 12388, 13634
    - urban mass transportation amendments of 1966, reports, 620, 628
    - urban, need for improvement (remarks), 9583
    - urban public, selected references, 2385
    - urban, trip generation analysis, guidelines, 15718
    - urbanized area planning programs, directory, 17175
    - USSR, translations, 3972
    - worldwide cargo transportation costs guide, Army Dept. pamphlet, 17380

Transportation—Continued  
your business partner, transportation (remarks), 9751  
see also Air carriers—Carriers—Local transit—Motor carriers.

Transportation analysts, career opportunities with Civil Aeronautics Board, 17448

Transportation Department:  
appropriations, 1968—  
amendments, 10521  
hearings, 12286, 16389  
law, 17557  
reports, 13666, 16373  
budget, 1968, amendments, 10513, 16350  
creation and functions (remarks), 1962  
establish—  
law, 389  
remarks, 1952  
report, 906

natural gas pipelines, prescribe safety regulations, hearings, 16403

organization and functions, 17264

possible impact on air transport (address), 17449

report on highway safety standards, 15048

Secretary, nomination of Alan S. Boyd, hearing, 9310

transfer certain functions relating to ship mortgages to—  
hearings, 9159, 10849  
message from the President, 7598

Transportation of school children, see Transportation.

Transportation tariff examiners, examination announcement, amdt., 1915

Transportation Workers Union of America, AFL-CIO, emergency board report, 4724

Transuranium elements, scientific research, dedication of new facilities at ORNL (remarks), 1815

Transuranium Processing Plant, dedication (remarks), 1815

Transuranium Research Laboratory, dedication at ORNL (remarks), 1815

Trap nests, see Nests.

Traps, see Insect traps—Pollen traps.

Traumas, see Injuries.

Traumatism, conference on trauma, report, 7087

Travel:  
allowances, uniformed services members for dependents' schooling—  
hearings, 10636  
reports, 10569, 12245

Army military personnel, dependents to overseas areas, information, Army pamphlet, 1765

Army regulation, 4194, 14790

authorization, Agriculture Committee, House, report, 12281

bright future of Pacific travel as foundation for bringing peace, order, and progress to world (remarks), 9022

civilian personnel, temporary duty, general information etc., handbook, 6143

controls, report, 688

directions, U.S.A., entry travel, shopping, etc.—  
German edition, 15814  
Portuguese edition, 15813

expenses—  
applicants for Federal employment, hearing, 17602

Government employees on official business, increase allowances, hearing, 16331

payment for Foreign Service, etc., employees in high-risk situations, 10768

rules for deducting from income tax, 2410

health information—  
Asia, etc., Australia and New Zealand, 13078  
Europe, 13079  
Mexico, Central and South America, and Caribbean, 13080

Travel—Continued  
industry growth (address), 9009

international travel to America, promoting (remarks), 16109

international visitors to U.S., plant tours, 11888

interstate or foreign, to incite riots, penalties, amend U.S. code—  
hearings, 15165, 16419  
reports, 12282, 13664

joint regulations—  
Defense Department civilian personnel, 3456  
uniformed services, 3455

market survey, travel to United States from—  
France, 5580  
Mexico, 5581  
United Kingdom, 5582  
West Germany, 5583

new doors to pleasure through air transportation (remarks), 1900

new world, see U.S.A., 1658-59

Pacific area, planning for future expansion (remarks), 8975

passenger, between U.S. and foreign countries, 3822, 4910, 12633

regulations, Foreign Service, revision needed to reduce per diem costs, GAO report, 15298

safety for ocean traveling public and seamen (remarks), 6258

space, physiological measurements, USSR study, 8243

trip generation analysis, guidelines, 15718

United States, travel a new world, see U.S.A., map, 13170

Traveler/El viajero, quarterly newsletter for migrant and seasonal farm workers, 7879

Travelers, you can assist balance of payments, 11887

Travertine, see Calcium carbonate.

Travieso y Perez, Lucio A., relief, 12342, 16213, 17514

Trawls and trawling, trawl nets, North Atlantic, 15256

Traylor, Harlon D., costs of drying and storing rough rice in Louisiana and Texas, 15864

Trays:  
ashtrays and lighters for automotive vehicles, Federal standard, 6327  
new overwrapped trays for McIntosh apples, 1674

Treasure County, Mont., soil survey report, 10089

Treasures from Cooper Union Museum, 12990

Treasury bills, department circular, 13166

Treasury Department:  
appropriations, 1968—  
amendments, 10695  
hearings, 6027, 10806  
law, 13529  
reports, 9097, 10791, 13658  
bulletin, 3976  
code of Federal regulations, 6285  
collection of Confederate records, preliminary inventory, 18074  
customs bulletin, weekly, 3174  
daily statement, 3183  
decisions—  
bound volumes, 2958, 17273  
weekly report, 3977

department circulars, 2947, 5569, 7207, 8770-72, 10118-119, 13166, 15811, 17266-267

public debt series, 2948, 5570, 7208, 8773, 13167-169, 15812

foreign exchange operations, 8005, 16599

law enforcement agencies, career opportunities, 5575

management improvement progress, report, 5572

meeting with officials, hearings, 9150

press releases, 3765

# INDEX 1967

- Treasury Department—Continued  
public regulation of business, viewpoint (remarks), 11884  
report, 1966—  
departmental edition, 13164  
document edition, 12196  
transfer of silver to national stockpile—  
law, 12171  
reports, 10602, 10765, 12248  
unemployment taxes, benefits from quarterly collection, GAO review, 8135  
withdrawal of cash from, for advances under Federal programs, 7207  
working capital fund, establish, report, 9090
- Treasury notes:  
4½ percent, series C—1968, 13108  
4¾ percent—  
series A—1962, 7209  
series B—1968, 7208  
series B—1972, 13169  
5¼ percent, series D—1968, 15812  
5¾ percent, series B—1971, 2948  
5½ percent, series A—1968, 5570  
payable in foreign currency—  
law, 513  
law, summary, 9177  
legislative history, 7762  
report, 702  
Senate amendments, summary, 4567
- Treasury savings notes, general information, department circular, 8773
- Treaties:  
and agreements of interest to Navy, compilation, 11291  
collective defense, compilation, 7743  
general interest, summary, 89th Congress, 4572  
in force, list, 7194  
non-proliferation treaty, why? 15926  
treaties and other international agreements, 14691  
see also Commercial treaties—also names of countries—also subjects.
- Treaties and other international acts series, 1634-42, 2885-2935, 3978, 5532-52, 7151-93, 8723-50, 10100-104, 11833-874, 13144-154, 14683-689, 15765-804, 17227-249, 18233
- Treaties on Socialist Turkey, 5027
- TRECOM technical report, 8895
- Tree nuts, see Nuts.
- Tree planting:  
scrub oak areas after site preparation with heavy equipment, 8112  
slash pine, Florida, summer planting shows promise, 8118  
tree planters' notes, 1099, 8125-27
- Tree seeds, see Seeds.
- Trees:  
accidents caused by hazardous trees on California recreation sites, 11125  
Alaska, specific gravity of increment cores, 4835  
color it green with trees, calendar of activities for home arborists, 5676  
dealers in seeds and planting stock, directory, 8125  
death of a giant, dutch elm disease still takes its toll, picture story, 15872  
forest, plant-parasitic nematodes, world distribution, 16645  
forest, tree improvement research in South and Southeast, 9542  
genetics and breeding of forest trees, bibliography, 4827  
heartwood of native species, comparative decay resistance, 8065  
height-diameter curves for tree species subject to stagnation, 2311  
mean-growth, accuracy of estimates made with dial-gage dendrometers, 8079  
pioneer search for better kinds for Northwest Wind River Arboretum, 14147  
sampling tree tops by helicopter, 11123  
transport of intercepted snow from trees during snow storms, 8114
- Trees—Continued  
visible dormant buds as related to tree diameter and log position, 17802  
see also Christmas trees—Tree planting—also names of trees.
- Trefoll, production for pasture and hay, 14741
- Trematodes, see Flukes.
- Trends in educational attainment of women, 7239, 14726
- Trends in sayings and loan fields, 16574
- Trenton, N. J., area wage survey, 8313
- Treves, S. B., Carney Lake Gneiss, 6398
- Trezevant, Walter S., analysis of electrical instrument shipments, 1826
- Triangulation, see Geodesy.
- Triassic period, Upper, and Triassic (?) formations between southwestern Utah and southern Nevada, correlation, 6393
- Triaxial equipment, duty-free entry, for Northwestern University, 617, 7653, 14889, 16357
- Trichlorides, see names of trichlorides.
- Trilobites:  
calymenid and other Ordovician, from Kentucky and Ohio, 16098  
Middle Ordovician, from basin ranges, western U.S., 11174
- Trimble, LaValle T., how to get money for college, 16501
- Trimble, Paul E., nomination, hearings, 6094
- Trinidad and Tobago:  
agricultural production, indices, 4700  
amateur alien radio operators, authorization to operate, agreement, 15774  
income-tax convention—  
hearing, 17651  
report, 17620  
text, etc., 6063
- Trinity County, Calif., erosion and deposition produced by flood of Dec. 1964 on Coffee Creek, 17823
- Trip generation, see Travel.
- Triplax, see Beetles.
- Tripp, John S., algorithm for synthesis of asynchronous sequential circuits, 1473
- Tripp, Patricia A., see Paeng, Mi Kung.
- Trips, see Travel.
- Trips, slips, and falls, occupational safety aid, 9708
- Trisphere spark gap actuates overvoltage relay, 2671
- Tri-States Construction Co., Inc., relief, 329
- Tritiated alumina serves as reagent for self-labeling analysis, 16886
- Tritium, quantitative determination in natural waters, 1130
- Tritons, energy required to produce electron-hole pair in silicon, 1501
- Troops, see Armed Forces—Army.
- Trophies, National Guard Bureau, Eisenhower trophy to outstanding unit of company size, announcement of winners, 14523
- Tropics:  
Atlantic Ocean, seabirds, identification manual, 2752  
balance equation, experiment in use in tropics, 9429  
corrosion of metals, 9993
- Troposphere:  
radio duct meteorology at VHF and UHF in theory and as observed on trip around world, 1551  
turbulent, effect on parameters of linear array antenna, USSR study, 5018  
UHF wave propagation, 6508  
upper, motions as revealed by satellite-observed cirrus formations, 9430
- Trouble shooting, complex system, solid state annunciator facilitates testing, 2640
- Trousers:  
making pants longer or shorter, 7289  
make waistline fit on pants, 7282  
tapering pants, 7281
- Trout, David L., effects of hydrazine on fat transport as affected by blood glucose concentration, 65



- Trout, E. Dale, X-ray machine simulator, 18191
- Trout:  
brook trout of Great Smoky Mountain National Park, 17787  
hepatoma research conference papers, 11090  
response of migrating adult salmonids to orifices, etc., 14066
- Trowbridge, Alexander B.:  
addresses, etc.—  
Nov. 2, 1966, 234  
Nov. 3, 1966, 227, 245  
Feb. 6, 1967, 5948  
Feb. 28, 1967, 5960  
Mar. 2, 1967, 5957  
Apr. 8, 1967, 7581  
Apr. 17, 1967, 7569  
Apr. 24, 1967, 9022  
May 1, 1967, 9023  
May 13, 1967, 10450  
May 16, 1967, 10454  
May 17, 1967, 10449, 10466  
May 21, 1967, 10471  
May 22, 1967, 10467  
June 2, 1967, 10451  
June 5, 1967, 10468  
Spanish edition, 10464  
June 27, 1967, 12126  
Sept. 8, 1967, 16095  
Sept. 11, 1967, 16094, 16096  
Sept. 20, 1967, 16109  
Sept. 29, 1967, 16092  
Oct. 6, 1967, 16093  
Oct. 19, 1967, 17469  
nomination, hearing, 12406
- Troy, N.Y., area wage survey, 12772
- TRU (transuranium processing plant), *see* Transuranium Processing Plant.
- Trubey, D. K., proceedings of special sessions on radiation transport and biological effects, 13314
- Trucial States, foreign trade regulations of Arabian Gulf States, 17480
- Truck tractors, *see* Tractors.
- Truck trailers, *see* Trailers.
- Truckee, Calif., earthquake, Sept. 12, 1966, effects, 9565
- Trucking, *see* Motortrucks in freight service.
- Trucks, commercial, standard models and special equipment requirements, military standards, 15190, 15192, 15195-196  
*see also* Firefighting vehicles—Hand trucks—Motortrucks—Power trucks.
- True, Arthur W.:  
economics of agriculture of foreign countries and U.S. foreign agricultural trade, selected list of publications, 993  
economics of agriculture, reports and publications of USDA's Economic Research Service, 13947
- Truman, Harry S., *see* President of United States.
- Trunklines, *see* Air carriers.
- Trusses:  
moisture cycling of trussed rafter joints, 8101  
open-face truss-core sandwich panels, compression tests, 5255
- Trust funds, *see* Trusts and trustees.
- Trust Territory of Pacific Islands:  
administration, report to United Nations, 5529, 11830  
annual report, 12638  
continue civil government, increase appropriations—  
hearing, 7812  
law, 10485  
reports, 7702, 7710, 9134, 9265  
status, message from the President, 16157
- Trustees of posterity (addresses), 15877
- Trusts (Industrial):  
antitrust field, Congress and monopoly problem, 1890-1966, history of congressional action, 4561
- Trusts (Industrial)—Continued  
antitrust laws—  
administration, investigation—  
authorization, report, 4617  
subcommittee activities, report, 9293  
balance of payments voluntary agreements, safeguarding U.S. position, exemption from antitrust laws, extend—  
law, 14906  
reports, 13647, 13674, 13811  
1890-1966, compilation, 1978  
football merger, authorize—  
hearings, 742  
law, 504  
law, legislative history, 2064  
law, summary, 4566  
Senate amendments, summary, 4568  
medical restraint of trade act, hearings, 17661  
price discrimination legislation, hearings, print additional copies, reports, 916, 2030  
economic concentration, concentration and divisional reporting—  
Fortune directory of 500 largest U.S. industrial corporations, 1954-65, hearings, 12415  
hearings, 6116  
income tax treatment of treble damage payments under antitrust laws, make nondeductible, hearings, 7820  
international aspects of antitrust, hearings, 7818, 13874  
Justice Department antitrust activities, review, 8280  
Sherman antitrust law, amend, hearing, 7817
- Trusts and trustees:  
highway trust fund—  
beautification program financing, authorization, hearings, 12311  
financial condition and operations, annual report, 9059  
legal investments for trust funds in D.C., list, 6157, 15201  
OASDI trust funds, additional earnings from 1960 interest rate amendments, 7116  
trust indenture act of 1939, releases, SEC, 3979  
*see also* Charitable trusts—Deeds of trust.
- Truth in lending act, *see* Credit.
- Trypanosoma cruzi, tumorigenism as basis for biopathy of cancer with cruzin, USSR study, 6548
- Trypanosomiasis, cure for Chagas disease discovered, Brazilian study, 11243
- Tsai, Stephen W., composite structures, 2602
- Tsaldm, deserts, description, 16777
- Testlin, M. L., Soviet scientist, biography, 1330, 2480
- Tsifutis, Argyrios A., relief, 553
- Tsunami (tidal wave):  
earthquake of Mar. 27, 1964—  
Kodiak and nearby islands, effects, 1121, 11176  
Seward, Alaska, effects, 11175  
Hilo Harbor barrier, steady-flow stability tests of navigation opening structures, 2220  
seismic wave propagation, 12118  
stability of rubble-mound barrier, Hilo Harbor, Hawaii, 16526  
wave reporting procedures for tide observers in seismic sea wave warning system, 4412
- Tualatin project, construction, report, 652
- Tuberculosis:  
avian tuberculosis in hogs, 14755  
reported data, 14635  
Yakut Scientific and Research Institute of Tuberculosis, meeting, 1333
- Tuberculosis in animals:  
bovine, eradication in cooperation with States, summary, 8813

# INDEX 1967

- Tuberculosis in animals—Continued  
 eradication in cooperation with States, summary, 3915  
 eradication, State-Federal cooperative program, progress report, 7251
- Tubes:  
 aluminized thin-window proportional-counter tube is stronger, more responsive in long wavelength region, 8451  
 conference on production of various types, Hungary, 9634  
 ductile mandrel and parting compound facilitate tube drawing, 5156  
 Federal Item Identification guides for supply cataloging, supplements, 3288  
 flared, roundness, and concentricity, mechanical gage checks, 6816  
 flares, gage tests quickly and accurately, 5210  
 heat exchanger, supported in high vibration environment, 5220  
 horizontal, sodium-potassium-cooled, heat-transfer of nonwetting, condensing mercury flow, experimental investigation, 11541  
 metal, can be folded for compact stowage, is self-erecting, 1452  
 metal tube reducer is inexpensive and simple to operate, 17932  
 metallic, Federal Item Identification guide, 10893  
 orbital tube flaring system produces tubing connectors with zero leakage, 8454  
 plastic tubing protects flexible copper hose, 6755  
 roughening increases heat transfer capability, 6773  
 seamless, production, USSR study, 2167  
 silver plating technique seals leaks in thin wall tubing joints, 6699  
 single thermal and hydraulic performance of potassium during condensation, 15506  
 small diameter refractory tube drawing, hydraulic fluid serves as mandrel, 5151  
 square tubing reduces cost of telescoping bridge crane hoist, 17920  
 steady-state performance of 7-tube potassium condenser, 12937  
 straight and curved, heat transfer to cryogenic hydrogen flowing turbulently at high heat fluxes, 6713  
 tungsten tubing, thin-wall, extrusion of  $\frac{1}{2}$ - and  $\frac{3}{8}$ -inch diameter, using floating-mandrel technique, 5250  
 vertical, freon-113 condensing in downward flow, local heat-transfer and pressure distributions, 11510  
*see also* Electron tubes—Image tubes—also names of metals, etc., of which tubes are made.
- Tubes (inner), *see* Inner tubes.
- Tublash, Haskell S., ornamental use of starfishes, 6346
- Tubing, *see* Tubes.
- Tubipora musica, *see* Corals.
- Tucker act (28 U.S.C., 1346 (a) (2)), *see* District Courts.
- Tucker County, W. Va., soil survey report, 11812
- Tucson, Ariz.:  
 area, urbanization and mineral aggregate industry, 5105  
 National Advisory Commission on Rural Poverty, hearings, 15668  
 population, special census, 10368
- Tufted textile products, current industrial reports, 7481, 16005-6
- Tufts University, rheogoniometer, duty-free entry, 7647, 13775, 14901
- T'u-jiang Chuan-pao (periodical):  
 translations, 1211
- Tularemia, influence of intermittent 98 percent oxygen and 380 mm. Hg. total pressure on host susceptibility, 5715
- Tule Lake National Wildlife Refuge, birds, list, 15262
- Tuliptree:  
 diameter distributions in natural yellow-poplar stands, 9544  
 short-term storage of yellow-poplar, softwood cuttings, 11131  
 yellow-poplar in New Jersey and Maryland, treatments needed to regenerate, 17804
- Tullios, Tommie J., management (excluding personnel), PACAF basic bibliographies, 10228
- Tully, P. C., vapor pressure of pure liquid nitrogen, 6639
- Tumors:  
 alimentary tract in Africans, symposium, 14632  
 and infectious virus interaction, quantitative aspects, USSR study, 6580  
 atlas of tumor pathology, 15181  
 brain tumor cells, morphology, USSR study using anoptical microscope, 12739  
 brain, uranyl phthalocyanines show promise in treatment, 12842  
 endocrine glands and secondary sex organs, 2841  
 intestines, pathology, 15181  
 origin, research on evolution of virus theory, USSR study, 9655  
 paths of intracellular synthesis of viruses of avian leucosis and sarcoma, USSR study, 6534  
 trout hepatoma research conference papers, 11090  
 tumorigenic action of some human adenoviruses, USSR study, 6560  
 viruses, and cell structure, virological and microscopic studies, USSR, 6562  
*see also* Cancer.
- Tuna fish:  
 deep-swimming, longline fishing in Marquesas Islands and adjacent areas, 12549  
 longline fishing effort and catch rates in northwestern Atlantic, 1957-65, inventory, 14063
- Tungsten:  
 ages of plutonium-beryllium neutrons in tungsten-water media, 1502  
 alloy, high strength—  
 at elevated temperatures, 5217  
 with improved ductility, 16969  
 brazing, for high temperature nuclear service in hydrogen, 11506  
 cobalt alloys reaction with oxygen at 1,000° and 1,100° K, 14352  
 deposits, mineralogy, geochemistry and genesis of, 1st all-Union conference, 1157  
 dislocation structures in slightly strained tungsten and alloys, 14486  
 fiber-reinforced copper composites form high strength electrical conductors, 2678  
 hot filaments, synthesis of higher order hydrocarbons, 8504  
 hydrocarbon synthesis, use as catalyst, 12827  
 insulated susceptor cup for induction furnace eliminate contamination, 5211  
 mineral industry survey, monthly, 3980  
 minerals yearbook chapter, 1416  
 properties, influence of neutron bombardment, USSR study, 15389  
 reactor rocket engine, mapping as guide to operation and control, 9876  
 resonance absorption integrals, determination by activation, 18012  
 rhenium alloys, lower-cost, 5208  
 rhenium-tungsten deposition by thermiochemical reduction of hexafluorides, 9767  
 stress-rupture and creep properties of tungsten-fiber-reinforced copper composites, 17002

**Tungsten—Continued**  
 tubing, thin-wall, extrusion of  $\frac{1}{2}$ - and  $\frac{3}{4}$ -inch-diameter, using floating mandrel technique, 5250  
 tungsten-cobalt system for compositions to 85 atomic percent cobalt, 12816  
 vanadium-base tungsten alloys, properties, 9780  
 wrought, effect of ductile cladding on bend transition temperature, 17008  
**Tungsten hexachloride**, purification, 14341  
**Tungsten isotopes**, resonance integrals, 9914  
**Tunicata**, Pacific specimens in National Museum, 9950  
**Tunisia**:  
 agricultural commodities, agreement, 1642, 5537  
 background notes, 5523  
 capsule facts for Armed Forces, 11979  
 declaration on provisional accession to GATT, 2894  
 labor conditions, 2519  
 mineral industry, minerals yearbook chapter, 6668  
 oceanographic research, Mediterranean Marine Sorting Center, agreement, 2931  
 Sâhli Sûsah area, surface water and related climate features, 11189  
 U.S. travelers, you can assist U.S. balance of payments, 11887  
**Tunnel diodes**, *see* Diodes.  
**Tunnels**:  
 nonuniform radial loads applied to boundary of circular hole in infinite plate, 17914  
 permafrost, Fairbanks, Alaska, geology, 17378  
 South Vietnam, environmental characteristics, 15229  
**Turbidity**, East Siberian Sea, July-Sept. 1964, turbidimetric observations, 9988  
**Turbine blades**, *see* Blades.  
**Turbine fans**, tip, high gas temperature utilization, 4221  
**Turbine fuel**:  
 aviation, 1966, petroleum products survey, 9762  
 emulsified, feasibility of burning in gas turbine engines, 11998  
**Turbines**:  
 and components, Federal item identification guides for supply cataloging, supplements, 3285  
 axial flow, off-design performance, analytical procedure and computer program, 8411  
 cold-air investigation of turbine for high temperature engine application design and stator performance, 5236  
 cold-air performance evaluation of fuel pump turbine for M-1 hydrogen-oxygen rocket engine, 6868  
 computer program performs flow analysis through turbines, 1472  
 gas, Mines Bureau coal-fired research project, test of new turbine blade design, 9772  
 gas turbine engines—  
   accessory technology, advancement, 10291  
   component technology, high-temperature materials research, 10287  
   feasibility of burning emulsified fuel, 11998  
 hydraulic reactions, selecting, 2847  
 hydraulic turbine industry, price indexes for materials, quarterly, 3415  
 hydraulic turbine operations, index of hourly earnings, selected establishments, 3413  
 lift fan technology studies, 11402  
 radial-inflow, experimental performance evaluation over range of—  
   Reynolds number, 6871, 6881  
   specific speeds, 2716

**Turbines—Continued**  
 turbomachinery, rotating components, computer program simplifies design, 15488  
 variable geometry for small gas turbine engines, study, 11996  
**Turboalternators**:  
 Brayton-cycle, static parasitic speed controller, 17004  
 solar-Brayton system, parasitic-load speed control, analog-computer study, 5258  
 two-spool solar-Brayton system, valve-speed control, 5257  
**Turbojet aircraft**, *see* Airplanes.  
**Turbojet engines**, *see* Engines (aircraft).  
**Turbomachines**, *see* Turbines.  
**Turbopumps**, cold-air performance evaluation of fuel pump turbine for M-1 hydrogen-oxygen rocket engine, 6868  
**Turbulence**:  
 boundary layer—  
   characteristics of pointed slender bodies of revolution at supersonic speeds, 18026  
   investigation at Mach 6 with heat transfer at high Reynolds numbers, 8488  
 clear air near thunderstorms, 6222  
 drag measurements in stream with sinusoidally fluctuating velocity in longitudinal direction, 5749  
 effect of turbulent troposphere on parameters of linear array antenna, USSR study, 5018  
 free-flight heat-transfer data from axisymmetric bodies, correlation with compressible flat-plate relationships, 5272  
 high-altitude, XB-70 airplane encounters, preliminary evaluation, 18038  
 high levels, hot wire techniques in low density flows, study, 6841  
 launch vehicle wind and turbulence response by nonstationary statistical methods, 15505  
 National Committee for Clear Air Turbulence, report, 2226  
 studies from aircraft and radar data, 10966  
 weak homogeneous, effects of combined buoyancy and shear, 11542  
 weak, in homogeneous plasma, 8906  
 weak locally homogeneous, and heat transfer with uniform normal strain, 5254  
**Turbulent flow**, *see* Flow.  
**Turkey**:  
 agricultural commodities, agreement, 17228  
 atomic energy, cooperation for civil uses, agreement, 2898  
 economy, basic data, 5952  
 foreign trade regulations, 12136  
 labor movement, 5016  
 mineral industry, minerals yearbook chapter, 8369  
 rifts within Turkish left, 14243  
 Socialist Turkey, treatise, 5027  
 trade in cotton textiles, agreement, 15786  
**Turkeys**:  
 farm production, etc., 7301, 13158  
 national improvement plan—  
   hatcheries, dealers, and independent flocks, participants, 7244  
   supplement, 10151  
   provisions, 14752  
 number raised, 1967, intentions, etc., 8762  
 prices and price spreads in 12 major cities, 11943  
 tested by official State agencies, monthly report, 3981  
**Turkmen Soviet Socialist Republic**, medical institutions, quality and number increase steadily, 14224  
**Turkot, V. A.**, explosion puffed dehydrated potatoes, estimated cost of commercial production using shortened cycle, 8808

- Turman, James A., decisions from the field, what OE's decentralization means to schools and colleges, 16497
- Turnhow, James W.:  
aircraft passenger-seat-system response to impulsive loads, 17388  
crash survival design guide, 13309
- Turner, Charles A., relief, 277, 808
- Turner, Francis C.:  
nomination, hearing, 7826  
remarks, Mar. 16, 1967, 8663
- Turner, John, oil and gas lease, reinstate, 530, 12324
- Turner, John H., comparison of spinning performances of cottons with varying fiber properties, San Joaquin Valley, Calif., 15860
- Turney, George E., cooldown characteristics of regenerative nozzle used in cold-flow nuclear rocket test facility, 11500
- Turnips, production, 4111
- Turnover compartmentalization, statistical tracer theory for analysis of whole-system retention data, 12012
- Turpentine, see Naval stores.
- Turtle Creek, channel improvement, hydraulic model investigation, 7932
- Tuteo, J. Russell, remarks, Sept. 14, 1967, 16090
- Tuthill, Samuel J., geomorphic effects of earthquake of Mar. 27, 1964, in Martin-Bering Rivers area, Alaska, 2370
- Tuttle, D. E. L., Navy management review, 3614
- Twiner, Sidney B., commercial potentials of semipermeable membranes, report, 6737
- Tuzigoot National Monument, general information, 17054
- TV, see Television.
- TVA, see Tennessee Valley Authority.
- Tweeten, Luther C., role of education in alleviating rural poverty, 10917
- Twin Creek, limestone (Jurassic) in western interior of United States, 8168
- Twin helix system produces fast scan in infrared detector, 6800
- Two-phase flow through abrupt expansions and contractions, 7431
- Two years of progress, veterans affairs, 1965-66, 89th Congress, 1660
- Tygarts Creek:  
engineer report—  
departmental edition, 2210  
document edition, 2008
- Tyndale, Harry J., aerospace safety, 2993
- Tynes, William O., comparison of properties of mass concrete containing 3- and 6-in. maximum size, crushed limestone coarse aggregate, 4745
- Typesetting, automatic typographic-quality techniques, state-of-the-art review, 9942
- Typewriters:  
current industrial reports, 3169, 10359  
electric, furnished to Members of House of Representatives, increase number—  
law, 17561  
report, 14969  
industry, 1958-66, analysis and trends, 13355  
see also Ribbons for typewriters.
- Typical plans for retaining walls, 18194
- Typists:  
career opportunities await you, Army Department, 8896  
clerk typists, opportunities with FDA, 8046  
examination announcement—  
amendment, 14855  
supplement, 7549  
opportunities in State Department, 11831
- Typological approaches and delinquency, control, status report, 17166
- Tyrrell, Philip H., systems for measuring and reporting resources and activities of colleges and universities, 17058
- U.S.D.A., see Agriculture Department.
- U.S. fighting man's code, 13286
- U.S. foreign trade statistics, classifications and cross-classifications, 17440
- U.S. Government research and development reports, 3984
- U.S.I.A., see United States Information Agency.
- U.S. National Commission for UNESCO newsletter, 3986
- U.S.S.R., see Union of Soviet Socialist Republics.
- Ubieta, Victor M., relief, 533
- Udall, Stewart L.:  
remarks—  
Jan. 31, 1967, 6439  
Aug. 19, 1967, 15324
- Udell, Gilman G.:  
agricultural trade development and assistance act of 1954 and amendments, 4463  
antitrust laws with amendments, 1978  
atomic energy, act of 1946 and amendments, 1979  
civil service classification and salary laws, 1980  
crime, kidnaping and prison laws, 1982  
Federal farm loan act with amendments, and Farm mortgage and Farm credit acts compilation, 1983  
Federal Power Commission laws and hydroelectric power development laws, 1984  
Federal reserve act of 1913, with amendments and laws relating to banking, 1985  
law relating to—  
agriculture, 1986  
civil service retirement, 1981  
espionage, sabotage, etc., 1987  
Federal aid in construction of roads, 1988  
forestry, game conservation, flood control and related subjects, 1989  
interstate commerce and transportation, 1990  
pension laws, 1991  
railroad retirement and unemployment insurance act, as amended, 1992  
selective service act, as amended, 1993  
soldiers' and sailors' civil relief act of 1940 and amendments, 1994  
veterans laws, supplement, 1995
- Uganda:  
labor conditions, 1390  
mineral industry, minerals yearbook chapter, 8355
- UH-1, see Helicopters.
- UHF, see Ultrahigh frequency.
- Uhr, Carl G., Sweden's social security system, 1608
- Uhrig, Robert E., neutron noise, waves, and pulse propagation, 12003
- Uinta Basin, Southeastern Utah and Colo., geology and fuel resource, 12610
- Uinta Mountains, High Uintas primitive area, mineral resources, 12598
- Ukrainian literature, Ukrainian Soviet literature on eve of great 50th anniversary, 4945
- Ukrainian Soviet Socialist Republic:  
Academy of Sciences, organization of comprehensive research, 15399  
dissertations on mechanics defended at institutes, 1302  
general progress under Soviet power, review by Communist Party central committee, 6576  
pride, a tale of mountain life in Ukraine, 16781  
scientific laboratories, institutes, and botanical garden, research gains noted, 14235
- Ulbricht sphere, modified, special purpose reflectometer uses, 9863

- Ulrich, H. P., soil survey of Parke County, Ind., 13127
- Ultrahigh frequency:  
mechanical device accurately measures RF phase differences in VHF or UHF ranges, 6848
- UHF wave propagation in troposphere, 6508
- Ultrasonic water column probe speeds up testing of welds, 5225
- Ultrasonic waves, *see* Sound.
- Ultrasonics, *see* Sound.
- Ultraviolet rays:  
detecting system, electron-sensitive solid state matrix, research and development, 16897
- Irradiated and weathered softwood surfaces and clear coatings, microscopic observations, 14123
- spectrometric techniques and spectra-structure correlations, 6631
- ultraviolet radiation, effect and use, USSR study, 12663
- vacuum ultraviolet below 500Å, continuously operating source, 5224
- Ultraviolet spectrum, *see* Spectra.
- Ulvedal, Frode, excretion of steroids and catecholamines during exposure to oxygen-helium atmosphere, 7366
- Umatilla, Oreg.:  
relief—  
law, 485  
report, 838
- Umatilla National Forest, multiple use highlights, 15291
- Umbilical systems, lock-disconnect mechanism gives positive release to joined bodies, 11460
- Umiat, Alaska:  
bentonite, unusual montmorillonite, analysis, 13291  
geology of Umiat-Maybe Creek region, 8159
- UN, *see* United Nations.
- Un-American activities:  
assistance to enemies of U.S. in undeclared war, make punishable, reports, 2017, 2019, 10618, 12263
- curb terrorist organizations, report, 16250
- subversive activities control act of 1950, amend to accord with court decisions, report, 15106
- Un-American Activities Committee, House:  
annual report, 13660  
committee print, 7757
- expenditures, authorizing, report, 9105
- hearings, 10680
- reports, 699, 2017, 10618, 16250, 16290
- Undercoat prevents blistering of silver plating at elevated temperatures, 11441
- Underdeveloped areas:  
agricultural assistance, picture story, 17332
- economic development (periodical), 3226
- project activity supplement, 6159
- trade and investment in developing countries, report, 9026
- Underemployment, *see* Unemployed.
- Undergraduates, *see* Students.
- Underground mining, *see* Mines and mining.
- Underground power transmission, 12513
- Underground structures, construction, USSR study, 9662
- Undertakers and undertaking, funeral directors' handbook on death and fetal death registration, 17142
- Underwater cable design, 15387
- Underwater research, *see* Hydrooptics—Oceanography.
- Underwater ships of science, 8267
- Underwater sound, *see* Sound.
- Underwater sports in USSR, 6552
- Underwear, knit, current industrial reports, 3170
- Unemployed:  
area redevelopment act, training programs, impact on public assistant case-loads, 3406
- area trends in employment and unemployment, 3039
- Federal unemployment taxes, benefits from quarterly collection, Labor and Treasury Depts., GAO review, 8135
- how government measures unemployment, 15437
- labor force, employment, and unemployment, 15452
- labor surplus area specialists, Defense Dept., list, 7866
- manpower development and training act—amendments of 1966, law, 496
- learn and train for job under MDTA, 13971
- mid-decade census, take in 1975, etc., hearings, 10666
- structural unemployment in United States, 7872
- training and technology in Tennessee, new skills for underemployed, 16792
- underemployment concept, way to measure need for economic development in Appalachia, 10922
- unemployed-parent segment of aid to families with dependent children, 3988
- work experience and training program, 12482
- Unemployment, *see* Unemployed.
- Unemployment compensation, *see* Unemployment insurance.
- Unemployment insurance:  
benefit series service, 3055
- claims, 3989
- District of Columbia unemployment compensation act, amend to exempt public international organizations, report, 16293
- employment security, slides and films, 12472
- Federal employees, financial protection, 1925
- program—  
extend benefits, etc., summary of Senate amendments to bill, 2115
- research studies, 1951-66, bibliography, 6200
- publications, price list, 17135
- railroad act, text as amended, 1992, 15719
- State laws—  
comparison, 6199, 17727
- employment and wages of workers covered, 3233
- evaluation of coverage and benefit provisions, summary tables, 12471
- significant provisions, 13973
- State salary ranges of positions in employment security, etc., 4898, 11194
- unemployment insurance review (periodical), 3990
- unemployment insurance statistics (periodical), 3991
- UNESCO, *see* United Nations Educational, Scientific, and Cultural Organization.
- UNICEF Day, *see* National UNICEF Day.
- Unified action Armed Forces (UNAAF), 16730
- Uniform reflective films deposited on large surfaces, 5203
- Uniformed services, *see* Armed Forces—Pay, allowances, etc.
- Uniforms:  
furnishing for deceased members of National Guard and Ready Reserve, report, 16229
- Marine Corps regulations, 8333
- Navy regulations—  
change, 8583
- effective pages, 17081
- postal service, permit use in theatrical, television or motion picture productions, report, 14975



# INDEX 1967

## Uniforms—Continued

- United States Navy, 1776-1898, posters, 7008
- see also* Clothing.
- Union of Medical Science Societies, Rumania, conference results reported, 14274
- Union of Soviet Socialist Republics:
  - Academy of Medical Sciences—
    - nominations, 5022
    - pediatrics session, report, 2461
    - vestnik (periodical), 4036
  - Academy of Sciences—
    - All-Union Entomological Society activities, report, 2471
    - Departments of Biochemistry, Biophysics, and Chemistry of Physiologically Active Compounds, annual convention, 2745
    - elections of biomedical scientists, 1331
    - new members, 2440
    - reports, 6579
    - vestnik (periodical), 4037
  - accelerators, plans, 1342
  - agricultural institutions, research work, 6572
  - agricultural situation—
    - midyear review, 16491
    - review and outlook, 9394
  - agricultural workers, protective masks available, description, 2457
  - agriculture, translations, 3968
  - air defense troops, 6569
  - air transport services, agreement, 5552
  - All-Union Academy of Agricultural Sciences imeni V. I. Lenin, patent practices and other measures, discussion, 1207
  - all-Union conferences and congresses—
    - biochemistry of nervous system, 1336
    - bionics, 1220
    - mineralogy, geochemistry, and genesis of tungsten deposits, 1157
    - scientific-technical, for automation of chemical production, 2454
  - analog and digital computer requirements, 1236
  - Antarctic research—
    - fishery research on Antarctic krill, 15345
    - Soviet Committee for Antarctic Research, reports on recent work, 12728
    - ten years, 12755
  - Arab nationalism, Soviet view, 9629
  - arms control and disarmament, press materials, translations, 3888
  - automation and cybernetics research, 6499
  - background notes, 17216
  - biochemistry and Minsk-2 computer, Bulgarian study, 4947
  - biological productivity of terrestrial plant communities, problems, conference, 4968
  - blackmail charges made by USSR in Middle East oil crisis, 15397
  - brain composition and function studied, by Soviet scientists, errata, 9610
  - Buddhism, Soviet view, 2429
  - Byurakanskaya Astrophysical Observatory, 1198
  - candidates for State prizes, 11282
  - chemical nature of organic matter in water of major rivers, 9614
  - communications, herald (periodical), 3397
  - communications, translations, 3969
  - Communist Party—
    - 23rd Congress, on struggle against imperialist ideology, 9654
    - U.S.A., Soviet pawn, 6114
  - computer centers and automatic accounting and control systems, 1340
  - computer technology, problems in assimilating, 2449
  - construction industry—
    - plans improvement in production and technology, 8239
    - trends, 4984
  - consular convention—
    - hearings, 6103
    - report, 6067

- Union of Soviet Socialist Republics—Con.
  - consumer goods and domestic trade, translations, 3970
  - cotton production, etc., addendum, 13245
  - cultural relations, exchanges, agreement, 7182
  - current 5-year plan, hydrobiology and ichthyology goals defined, 6522
  - cybernetics—
    - current applications, 12730
    - technical, problems of control and information problems of science, 2427
  - Czechoslovakia-U.S.S.R. boundary, study, 17225
  - desalination, agreement, 11841
  - development of live vaccines, survey, 9618
  - earthquakes, 1255
  - economic reforms in light industry, results, 5009
  - economy and industry—
    - current developments, 4013
    - general information, 4014
  - economy, application of—
    - computer technology, 1310
    - macro-economic production functions, 2469
  - economy, contemporary stage of development, and bourgeois criticisms, 9639
  - education, translations, 3966
  - educational institutions—
    - correspondence and evening higher educational institutions, prospects, 1164
    - productivity discussed, 1292
  - engineering patents, 9628, 9648
  - ethnography translations, 8261
  - experiment in insecticide effectiveness, 4978
  - experimental power plant with magneto-hydrodynamic generator, 15428
  - faithfulness to international obligations, 12467
  - farm production, effects of increased incentives, 2468
  - Flat-Soviet auto plant and Communist economic reforms—
    - study, print additional copies, report, 10594
    - subcommittee report, 12291
  - Finland-USSR boundary, study, 8718
  - fisheries, northeastern Pacific Ocean off U.S. coast, agreement, 11858
  - foreign policy, phases, 1279
  - gas industry, rapid development, 2451
  - Gorkiy Medical Institute, fallings noted, 4936
  - graduate schools and medical training, improvements sought, 15407
  - health officials, 1247
  - Hematological Service, and immediate tasks confronting it, 6584
  - hospital services, report of U.S. delegation on hospital systems planning, 2826
  - Hungary-U.S.S.R. boundary, study, 17224
  - hydrobiology, survey of fifty years of work, 14236
  - hydrometeorological service news, 1175
  - industrial development—
    - automotive and tractor industry, 4015
    - chemical industry and machinery, 4016
    - construction, construction machinery, and building materials, 4017
    - electric power, power machinery, and electrical equipment, 4018
    - electronics and precision equipment, 4019
    - metallurgy and minerals, 4020
    - metalworking equipment, 4021
    - precision equipment, 4022
  - inland seas, what will happen to them, 8244
  - Institute of Oceanology, 20th anniversary, 9622
  - Intellectual ferment, aspects, 4571
  - print additional copies, report, 2098
  - international economic relations, translations, 4024



Union of Soviet Socialist Republics—Con.  
 joint Soviet-Polish scientific and technical  
 meeting, 9658  
 journalist describes visit to Communist  
 China, 6383  
 king crab, fisheries, agreement, 11857  
 labor force and civilian employment, 1950-  
 75 estimates and projections, 12090  
 labor, studies, 6530  
 labor, translations, 3971  
 law and social regulation, translations,  
 3967  
 man-machine systems, problem, sympo-  
 sium, report, 16753  
 medical apparatus, new, 17877  
 medical educational extension service pro-  
 gram, review, 2433  
 medical history reviewed, 14227  
 medical industry (periodical), transla-  
 tions, 4023  
 medical instruments, description, 12722  
 medical research praised and criticized,  
 6567  
 medical service, measures to improve, 6538  
 medicine and biological sciences, better  
 coordination urged, 6500  
 medicine and biology, translations, 14271  
 medicine, prospects and achievements,  
 15360  
 military schools adopt programmed teach-  
 ing methods, 16756  
 military translations, 3887  
 mineral industry, minerals yearbook chap-  
 ter, 15470  
 Mosenergo high-voltage overhead electric  
 power network, development study, 6550  
 motion picture, July rain, reviewed, 16771  
 Muslim teachings and education reviewed  
 in press, 1252  
 NATO, Soviet view (speech), 9317  
 northern, sailing directions, change, 14574.  
 15626  
 nuclear weapons development, digest, 7746  
 oceanographic ship conducts marine re-  
 search in Pacific, 14240  
 organic chemistry studies, 2444  
 organization of interdisciplinary cybernetic  
 studies, 15349  
 pharmaceutical development, 15391  
 poor safety measures and work methods  
 at mines, 2478  
 power plants in India, studies, 6525  
 programmed instruction, state, 11248  
 propaganda, techniques, 12322  
 print as Senate document, report, 12372  
 public health—  
 economics, discussion by medical men  
 and economists, 2462  
 greater economy urged, 6570  
 problems in next 5-year plan, 4966  
 service, defects cited, 1263  
 publications on applied problems in tech-  
 nical cybernetics described, 14262  
 rebellion in Russia's Europe, fact and fic-  
 tion, print additional copies, report,  
 12373  
 report on oil-producing Arab nations,  
 11254  
 research—  
 application of electronics in biology and  
 medicine, 4970  
 applied chemistry, 4979  
 bionics, reports, 1259  
 brain composition and function studied  
 by Soviet scientists, 8271  
 cancer, recent work, 1334  
 ion-exchange technology, 8254  
 need for activities cited, 2428  
 nutrition, 2459, 6511  
 personnel training in bionics, 16773  
 petroleum industry, 1187  
 scientific bases of strength and plastic-  
 ity of materials, 2453  
 selection of optimal working communi-  
 cation frequencies, 6518  
 virology, 4993

Union of Soviet Socialist Republics—Con.  
 Russian drug index, 8534A  
 satellite tracking equipment, description,  
 9611  
 science—  
 basic trends discussed by Academician  
 Ya. V. Pevye, 8253  
 expands, 12751  
 promoting development, 15374  
 science and technology achievements,  
 14248  
 scientific abstracts, 4025-31  
 scientific and technical information (peri-  
 odical), 3852  
 scientific and technical information serv-  
 ice, organization, 2430  
 scientific education, measures outlined for  
 improving, 14245  
 scientific establishments, activities, 2479  
 scientific organizations—  
 activities, 15379  
 news, 2436, 6519  
 recent progress described, 1267  
 scientists—  
 and scientific organizations, news, 9638  
 benefits and improvements, 4982  
 honored, 1190  
 research and activities reviewed, 14264  
 satellite meteorology, papers, 4986  
 scuba diving, 15420  
 selected functional bibliography, 15763  
 Sino-Soviet conflict, implications, report  
 and hearings, print additional copies,  
 report, 2029  
 soil conductivity, results of measurements,  
 14229  
 Soviet-Arab contradictions in relations  
 with Israel, 14241  
 Soviet-Polish symposium on development  
 of science, 15411  
 space—  
 activities, brief recapitulation, 1305  
 programs, 1962-65, goals and purposes,  
 etc., 4628  
 space biology and medicine, conference,  
 reports, 1228  
 standardization, recent developments, 8240  
 state budget under conditions of imple-  
 mentations of economic reform, 4944  
 steel casting and foundry work, 1224  
 technological advancement and improve-  
 ment, 1158  
 10-year school, final examinations, 1002  
 test airfield of Soviet air forces, 16738  
 transportation, translations, 3972  
 U.S.A. vs. U.S.S.R., changing strategic  
 military balance, 12288  
 Ukraine, general progress under Soviet  
 power, review by Ukrainian Communist  
 Party central committee, 6576  
 underwater sports, 6552  
 virology and cancer studies, 9616  
 virus studies, 6516  
 Voronezh State University, living and  
 study conditions of Chinese post-  
 graduate students, 4954  
 weather modification, 1964-66, bibliog-  
 raphy, 17903  
 Union provost marshals' papers relating to  
 civilians, pamphlet accompanying micro-  
 copy, 18061  
 Union wages, see Wages.  
 Unions, see Fishermen's and fish shore  
 workers' unions—Labor unions.  
 Unit heaters, current industrial reports,  
 3170, 12070  
 United Arab Republic (Egypt) :  
 background notes, 7142  
 capsule facts for Armed Forces, 10249  
 declaration on provisional accession to  
 GATT, 11863  
 economy, basic data, 12132  
 education, Commission for Education and  
 Cultural Exchange and financing pro-  
 grams, agreement, 11870

# INDEX 1967

- United Arab Republic (Egypt)—Continued
  - food products import market, 1947
  - labor conditions, 1391
  - Soviet-Arab contradictions in their relations with Israel, 14241
  - U.S. travelers, you can assist U.S. balance of payments, 11887
  - war or peace in Middle East, study mission report, 10837
- United Kingdom, *see* Great Britain.
- United Kingdom of Great Britain and Northern Ireland, *see* Great Britain.
- United Nations:
  - action agency for peace and progress, 14679
  - charter amendment—
    - message from the President, 4574
    - report, 9189
  - conference, single convention on narcotic drugs, 1961—
    - message from the President, 7771
    - report, 9190
  - development program, and private enterprise, how to bid on special fund projects, 4262
  - foreign relations of U.S., diplomatic papers, general—
    - departmental edition, 18230
    - document edition, 17565
  - headquarters, agreement, 8733
  - peacekeeping dilemma, 10835
  - Southern Rhodesia and United Nations, U.S. position, 8720
  - United Nations at 21, report, 7810
  - United States participation, report—
    - departmental edition, 8719
    - document edition, 7608
- United Nations Educational, Scientific, and Cultural Organization:
  - amendment to constitution, 17243
  - special fund projects, 14690
- U.S. National Commission, newsletter, 3986
- United States and UNESCO, challenges for the future, 10105
- United States:
  - NOTE:—For all subjects pertaining to the United States, except its government, general history, and description, *see* such subjects.
  - America illustrated (periodical)—
    - Polish language edition, 3026
    - Russian language edition, 3027
  - becoming a citizen series—
    - our American way of life, 11211
    - our Government, 12630
    - our United States, 12629
  - commitments to foreign powers, hearings, 17652
  - conflicts between U.S. capabilities and foreign commitments, hearing, 6102
  - Constitution and Government, Federal textbook on citizenship, 12631-632
  - discovery and rediscovery for economic development (address), 7561
  - facts, from recent Census Bureau surveys, 7491
  - foreign policy commitments, should be substantially reduced, national high school debate topic, 2002
  - geographic names, decisions list, 1105
  - growth, 1640-1851, exhibition, History and Technology Museum, Smithsonian Institution, 18203
  - pocket data book, USA 1967—
    - departmental edition, 5890
    - document edition, 5986
  - state of the Union message from President Johnson, 12105
  - statistical abstract, 1967—
    - departmental edition, 14834
    - document edition, 14923
  - travel a new world, *see* U.S.A., map, 13170
  - U.S.A. vs. U.S.S.R., changing strategic military balance, 12258
  - United States and the world, introduction to our foreign relations, 5553
  - United States Arms Control and Disarmament Agency, biographic register, 14670
  - United States Army Service Center for Armed Forces, USASCAF pamphlet, 4229
  - United States coast pilots, *see* Coast pilots.
  - United States code, *see* Codes of law.
  - abolish office—
    - hearings, 12416
    - report, 13810
  - system, proposals to reform, hearings, 12416
  - United States Committee on Human Rights, establish, report, 12386
  - United States Corrections Service, establish, hearings, 12306
  - United States District Court for D.C.:
    - liens established by judgment or decree, recordation by recorder of deeds, report, 12385
    - transfer authority rel. to marriage license issuance—
      - law, 13533
      - report, 13641
  - United States Educational Foundation in Australia, agreement, 15770
  - United States Educational Foundation in Italy, agreement, 11842
  - United States Educational Foundation in Netherlands, agreement, 11861
  - United States Envelope Company, inspection tour, report, 4554
  - United States Information Agency:
    - appropriations, 1967, law, 501
    - appropriations, 1968—
      - hearings, 10632, 16390
      - reports, 10616, 16372
    - biographic register, 14670
    - domestic dissemination of materials, prohibit, etc., report, 10767
    - field staff, Foreign Service list, 3349
    - Foreign Service personnel system, improve, hearing, 17653
    - housing at Brewerville, Liberia, potential savings through constructing rather than leasing, GAO report, 6379
    - magazine reprint MR series, 3532
    - report to Congress, semiannual, 7216, 17274
    - retirees, prospective, general information for, 8721
  - United States-Israel Educational Foundation, agreement, 11874
  - United States-Japan Committee on Scientific Cooperation, 1st 5 years, 1961-66, major activities, etc., 13138
  - United States magistrates, establish office, report, 13810
  - United States Mission to United Nations, biographic register, 14670
  - United States-Puerto Rico Commission on Status of Puerto Rico:
    - background studies, 2960
    - hearings, 763, 2068, 10690
    - report, 2959
  - United States reports, *see* Supreme Court.
  - United States Travel Service:
    - annual reports, 5578, 17277
    - press releases, 3766
    - 10th program report, 5579
  - United States-United Kingdom Educational Commission, agreement, 13149
  - Universal military training and service act, *see* Military service.
  - Universities, *see* Colleges and universities.
  - University of Alaska:
    - transfer Alaska Agricultural Experiment Station to—
      - law, 366
      - report, 660
  - University of California:
    - carillon, duty-free entry, 7649, 14887, 16355

University of California—Continued  
marine biological research laboratory, use  
of land donated, hearing, 746

University of Maine:  
land, permit disposal—  
hearings, 16303  
report, 16276

University of Tennessee, Agricultural Re-  
search Laboratory, research, progress re-  
port, 7425

Univibrator circuits, *see* Circuits.

Unlading and lading:  
airdrop of supplies and equipment, rigging  
typical supply loads, 8887  
fresh fruit and vegetable unloads—  
eastern cities, 7530  
midwestern cities, 7832  
southern cities, 7833  
totals for 41 cities, 7834  
western cities, 7831

lettuce, load pattern effect on transit tem-  
peratures and crushing in transcon-  
tinental shipments, 11916

steel products, recommendations of trade,  
amdt., 6920

watermelons, heavier loading in rail cars  
and piggyback trailers, damage and cost  
reduction study, 10154

Unloading, *see* Unlading and lading.

Unparalleled opportunity for employment of  
handicapped (address), 8616A

Uota, M., quality and display life of carnation  
blooms after storage in controlled  
atmospheres, 15863

Upchurch, Robert E., subject headings used  
by USAEC Division of Technical Informa-  
tion, 128

Upconverters, parametric, increases flexibi-  
lity of maser, 9859

Upland cotton, *see* Cotton.

Upper Cretaceous period, *see* Cretaceous  
period.

Upper Cumberland Coal Reserve District,  
land disturbances from strip-mining, 8077

Upper Great Lakes Regional Commission:  
alternate cochairman, nomination of Har-  
old C. Jordahl, jr., hearing, 16433  
new approach to economic development,  
17281

Upper Klamath National Wildlife Refuge,  
birds, list, 15262

Upper Marlboro, Md., motor carrier accident,  
16873

Upper Ordovician period, *see* Ordovician  
period.

Upper Pennsylvanian period, *see* Pennsylvanian  
period.

Upper Silurian period, *see* Silurian period.

Upper Volta:  
background notes, 10095  
capsule facts for Armed Forces, 15910  
labor conditions, 2520

Upshur County, W. Va., coal, preparation  
characteristics, 14358

Upward bound, program to help youth from  
low income families achieve college educa-  
tion, etc., 9385

Ural electronic computers, *see* Electronic  
computers.

Uranium:  
and thorium-bearing minerals, glossary,  
17819  
carbide cathodes of solid solutions, evap-  
oration rates, 6532  
concentration and isotopic composition in  
reactor fuel element solutions, 13333  
deposits—  
epigenetic, in sandstone in United  
States, geology, 8167  
Laguna district, N. Mex., 8165  
Moab, Monticello, White Canyon, and  
Monument Valley Districts, Utah and  
Arizona, 6391  
Ralston Buttes district, Jefferson  
County, Colo., 15308

Uranium—Continued  
discovery of uranium-233 (remarks), 4240  
enrichment services criteria and related  
matters, hearings, 1976  
geology and uranium deposits of southern  
Black Hills (series), 12597, 14168  
mining, radiation hazards, guidance for  
control, 17761  
phase relations in uranium monocarbide  
region of system uranium-carbon-oxygen,  
12821  
recovery by fluid-bed fluoride volatility  
process from spent alloy fuels, 9793  
western project, mechanical samplers in  
use at Grand Junction, Colo., design and  
descriptions, 15963

Uranium carbide, phase relations in mono-  
carbide region of system uranium-carbon-  
oxygen, 12821

Uranium dioxide,  $UO_2$  fuel systems for wa-  
ter applications, development and testing,  
8902

Uranium hexafluoride, handling procedures  
and container criteria, 1796, 13340

Uranium isotopes:  
quantitatively determined by modified  
method of atomic absorption spectro-  
photometry, 14368  
U-235, reactor fuel, fission product nu-  
clides, identification for dose calcula-  
tions following accident, 13349

Uranium oxides, thermal decomposition in  
vacuum, USSR study, 16743

Uranyl phthalocyanines show promise in  
treatment of brain tumors, 12842

Urban America, goals and problems, 14921

Urban areas, *see* Cities and towns.

Urban planners, *see* City planners.

Urban planning, *see* Redevelopment (city  
planning, etc.).

Urban policy, *see* Redevelopment (city  
planning, etc.).

Urban Problems, National Commission, *see*  
National Commission on Urban Problems.

Urban public transportation, selected refer-  
ences, 2385

Urban renewal, *see* Redevelopment (city  
planning, etc.).

Urban renewal manual, 4009

Urbanization and its impact on mineral ag-  
gregate industry in Denver, Colo., area,  
6637

Urbanization and mineral aggregate indus-  
try, Tucson, Ariz. area, 5105

Urethanes, polyurethane adhesive, use of  
nonwoven glass fiber mat to reinforce,  
11450

Urga-Ferraro, Francesco, relief, 10541,  
13511, 13757

Urga-Ferraro, Giovanni, relief, 10541,  
13511, 13757

Uric acid:  
levels in parotid fluid, effect of—  
rate of gland function, 11959  
uricosuric drug administration, 11960  
uricosuric drug, *see* Probenecid.

Urle, Dean H., waterline erosion control es-  
sential to streambank rehabilitation,  
14099

Urinals, trim, standard of trade, 5287

Urinalysis, *see* Urine.

Urine:  
creatinine excretion as index of fat-free  
mass composition in rats, 7415  
excretion of steroids and catecholamines  
during exposure to oxygen-helium at-  
mosphere, 7366  
immersion diuretics, 15896  
renal excretion of solutes in rabbits, ef-  
fect of  $-7G_x$  acceleration, 14776

urinalysis—  
automated technique determines con-  
centration of creatine, etc., by colorim-  
etry, 14437  
laboratory procedures, 10221

# INDEX 1967

Ursic, S. J., late planting improves loblolly survival, 8119

Uruguay:  
background notes, 11821  
livestock and meat industry, 11098  
mineral industry, minerals yearbook chapter, 11361  
radio communications between amateur stations on behalf of 3d parties, agreement, 5545

USAEC, *see* Atomic Energy Commission.

USAF Instructors Journal, 4011

USAF Scientific Advisory Board, *see* Scientific Advisory Board, USAF

USAFI, *see* Armed Forces Institute.

USAPRO, *see* Army Personnel Research Office.

USASCAF pamphlet, 4229

USATEA, *see* Army Transportation Engineering Agency.

USDA, *see* Agriculture Department.

Udall, Earl, psychotropic drugs and related compounds, tabulation, 11752

Use of color for safety, safety in industry, instructor outline, 8297

Use tax, District of Columbia, exempt House of Representatives majority and minority rooms, printing operations, etc., report, 9087

User's guide to technical library services, 10265

USIA, *see* United States Information Agency.

USS Cascade, *see* Cascade (USS).

USS Shenandoah, *see* Shenandoah (USS).

USSR, *see* Union of Soviet Socialist Republics.

USTS, *see* United States Travel Service.

Utah:  
census of agriculture, 1964, State and county statistics, 13410  
census of manufactures, 1963, area statistics, 1852  
census of mineral industries, 1963, area statistics, 5843  
climatology data, 3096  
coalfields, low-temperature carbonization product yields, estimation, 14345  
coking properties of selected coals and blends, 11377  
convey relicted lands lying below meander line of Great Salt Lake, hearing, 4643  
county business patterns, 12063  
early Indian tribes of Lower Plateau, 6437  
electric rate book, 11025  
Green River formation, geology and fuel resources, 12610  
Iron Springs district, geologic interpretation of aeromagnetic survey, 11173  
mineral industry, minerals yearbook chapter, 5121  
Mojab-Needles area, regional geophysical investigations, 2368  
northern, soil moisture depletion by gambel oak, 4831  
phosphate industry and its resources, evaluation, 11370  
postal map, 5400  
precipitation data, hourly, 3401  
radioactivity, airborne, 1952-55, maps, 1802  
southwestern —  
coal resources for steam-electric power-generation plants, 8341  
Upper Triassic and Triassic (?) formations, correlation, 6393  
Zion Park region, Carmel formation review, 11168  
water supply outlook and snow surveys, 4050

Utah Territory, service records, microcopy, pamphlet to accompany Union Army volunteers, 18073

Ute Indians:  
Confederated Bands of Ute Indian Tribes, judgment funds, distribution—  
law, 13540  
report, 9114  
southern Ute Tribe of Southern Ute Reservation in Colorado, funds, disposition, report, 7778

Ute Mountain Indian Reservation, geology and availability of ground water, 6409

Ute Mountain Tribe of Ute Mountain Reservation, rights and interests in certain lands held in trust, determine, report, 13832

Utensils, *see* Implements, utensils, etc.

Uterus:  
cancer, 14628  
precancer and cancer of cervix uteri, differential cytological diagnosis using fluorescence and phase-contrast microscopy, USSR study, 12700

Utilities:  
Job Corps men's and women's centers, facilities maintenance and utilities operations handbook, 7876  
Military Academy, provide without charge to certain civilian instructors, etc.—  
law, 430  
report, 933  
water and wastewater, capital expenditures, 1964 distribution, 4260  
*see also* Public utilities.

Utility companies, *see* Electric utilities—Public utilities.

Uwharrie National Forest, deer browse resources, 8124

Uzbek Soviet Socialist Republic:  
Academy of Science, work reviewed, 8272  
contributions of Uzbek scientists to Republic's development outlined, 12671

## V

V.A., *see* Veterans Administration.

VA, *see* Veterans Administration.

VA fact sheets IS (series), 5586

Vacation house, building plan, 8837

Vacation pay, *see* Wages.

Vacations:  
national-forest vacations, 11107  
vacation home study, 1966, northern New England, 18116

Vaccination, reactions to bacterial antigens after irradiation, USSR study, 9665

Vaccine:  
controls over use in hog cholera eradication program, GAO review, 9549  
live, development in Soviet Union, survey, 9618

Vacuum:  
applications to cryogenic temperatures, feed-thru flange useful, 6778  
cardiovascular responses in anesthetized dogs during repeated decompressions, 78  
chamber evacuation, quartz crystals detect gas contaminants, 14416  
chamber remotely sealed by eutectic metal, 11390  
changer, clean with 1-watt refrigerator, 12930  
combination double door high-vacuum valve provides access to vacuum chamber, 9825G  
cryogenic cooling reduces high voltage arcing between electrodes operating in vacuum, 5146  
electrothermy, processes and apparatus, USSR study, 12720  
environment, screw-seal performance, 6885  
flash vapor deposition in vacuum, evaporant feed device facilitates process, 16955  
free jet impingement normal to curved surface, 9897  
high and super-high vacuum physics and technology, scientific and technical conference, USSR, 11250

## Vacuum—Continued

- high temperature, fatigue testing of type 316 stainless steel and Inconel X with resonance-type machine, 11676
- improved rolling element bearing provide low torque and small temperature rise in ultrahigh vacuum environment, 6835
- machine tests slow-speed sliding friction in high vacuum, 17989
- measurement, bibliography and index, supplement, 12984
- outgassing rates of solid rocket fuels, 5262
- rapid decompression and exposure of fresh foods, 1735
- rhenium, single-crystal and polycrystalline, friction characteristics in vacuum, 9912
- solar X-ray spectrum reproduced in vacuum, 12895
- switchgear, survey, 5140
- thermal decomposition of uranium oxides in USSR study, 16743
- ultraviolet—  
below 500 Å, continuously operating source, 5224
- ion chambers simplify absolute intensity measurements in, 1447
- Vacuum cleaners, industrial plant equipment handbook, 4674
- Vacuum gages, volume-ratio calibration system used, 6802
- see also Ionization gages.
- Vacuum seals, rubber and alumina gaskets retain inside high temperature EMF cell, 5141
- Vacuum systems, small volume, ultrahigh, for ionization gage studies, 18037
- Val, Antonio S., relief, 16200
- Valbyteuthidae, see Squids.
- Valdes, Cruz, Oscar, relief, 534
- Valdés-Fauli, G. F., relief, 13765, 16208
- Valdes-Rodriguez, Julio, relief, 9200, 12145, 12213
- Valentine National Wildlife Refuge, native sandhills grasses, description, etc., 16621
- Valera, Jaime E. Condom, see Condom Valera, Jaime E.
- Vallbona, C., effect of bedrest on various parameters of physiological function, effect of bedrest on circulatory response to Valsalva maneuver, 2595
- Vallejo, James L., mineral industry of Georgia, 2552
- Vallerie, Leroy L., peripheral vision displays, 12865
- Valuation, practices of local cooperative grain elevators, 15235
- Value engineering, reduce costs and improve equipment, 4682
- Valves:  
check valve installation in pilot operated relief valve prevents reverse pressurization, 6815
- closure, actuator device schedules rate, 6840
- combination double door high-vacuum valve provides access to vacuum chamber, 9825G
- effectively control amount of contaminant in flow stream, 6838
- Federal item identification guides for supply cataloging, supplements, 3288
- fuel and oxidizer valve assembly employs single solenoid actuator, 9825B
- in-tank shutoff, provided with maximum blast protection, 2645
- labyrinth-type valve seat increases valve life by decreasing fluid velocity, 1444
- leakage through closed valves, correlations for predicting, 17038
- miniature, accurately controls small volume fluid flow, 5142
- modulating for programmed temperature, 2
- relief valve poppet stroke, use of aspirator to increase, 12890

## Valves—Continued

- remotely operated high pressure valve protects test personnel, 15551
- solenoid design has one moving part, 14425
- solenoid, monitoring circuit accurately measures movement of, 2676
- solenoid-valve actuations, control with variable-pulse switching circuit, 8456
- spool, cycles at controlled frequency, 2635
- technology, advanced, NASA contributions to, 15518
- Teflon sheet permits valve and valve actuator to move as single unit in cryogenic pipe line, 6698
- temperature responsive valve withstands high impact loading, 14427
- two-spool solar-Brayton system turboalternator, valve-speed control, 5257
- vortex, for medium temperature solid propellants, 2651
- Vanadium:  
ductile, electrolytic process for producing, 12825
- electron-beam purification, 15480
- mineral industry survey, monthly, 4032
- scrap, molten-salt electrorefining, 17916
- Ti-8Al-1Mo-1V simulated wing structure, fusion welded, fatigue behavior, 16905
- vanadium-base tungsten and chromium alloys, properties, 9780
- Vanderbilt Mansion National Historic Site, general information, 2759
- Vandergrift, A. E., mechanism of mass transfer through liquid interface, 8215
- Vanderveen, John E., study of man in oxygen-helium atmosphere, nutritional evaluation of feeding bite-size foods, 83
- Van Deusen, B. D., statistical technique for dynamic analysis of vehicles traversing rough yielding and non-yielding surfaces, 8407
- Van Dolah, Robert W., sympathetic detonation, 5131
- Vau Doren, Ron, missionaries in classroom, 6188
- Vanes, variable-geometry guide vanes, use to control rotor-inlet flow conditions, 5275
- Van Hoozer, Dwane D., southern pulpwood production, 17809
- Van Sickle, Charles C.  
East Texas' timber harvest, 2323
- factors for converting Midsouth pulpwood from cords to cubic feet, 8096
- forest industries in Appalachia counties of Tennessee, 16666
- Van Stee, Ethard W., effect of sodium acetate on TmPAH depressed by exposure to hydrazine, 4177
- Van Thiel, M., compendium of shock wave data, 5793
- Vapor-chamber fin studies, transport properties and boiling characteristics of wicks, 14379
- Vapor pressure:  
metal halides,  $\text{SnCl}_2\text{-ZnCl}_2$  binary system, 16864
- new class of compounds have very low vapor pressures, 12838
- pure liquid nitrogen, 6639
- refractory materials with low thermal absorption cross sections, data extrapolated to 1000 atmospheres, 18015
- vapor gap osmotic distillation process, 2394
- Vaporization:  
potassium, high temperature, in forced convection at saturation temperatures of 1800° to 2100° F, 14391
- propellant, frequency response characteristics, analysis, 5235
- Vaporizers, classification definitions, 18122
- Vapors:  
interfacial behavior following termination of outflow in weightlessness, 8501



# INDEX 1967

Vapors—Continued  
sodium potassium and cesium, expansion and flow characteristics, 2717  
water-vapor electrolysis cell with phosphoric acid electrolyte, 12858  
welding, bonding, and sealing of refractory metals by vapor deposition, 14432  
see also Mercury vapor—Water vapor.

Vargo, Franklin J.:  
basic data on economy of Surinam, 16103  
foreign trade regulations—  
Bahamas, 7576  
Barbados, 9019  
Bermuda, 9017

Variable reluctance switch avoids contact corrosion and contact bounce, 11466

Variable stars, see Stars.

Variables (mathematics):  
computer optimization program finds values for independent variables that minimize dependent variable, 17958  
multiple correlation computer program determines relationships between several independent and dependent variables, 16961  
variable-structure automata, USSR study, 17861  
variable turbine geometry for small gas turbine engines, 11996

Variance and covariance of life table functions estimated from sample of deaths, 8657

Variation (biology):  
mutagenic activity of chemical compounds, and genetic effect when combined with ionizing radiation, USSR studies, 2438

Variational principle for stationary magneto-hydrodynamic equilibria, 12008

Variouse veins, cause, treatment, etc., 2815

Varnes, David J., general and engineering geology of United States Air Force Academy site, Colo., 11179

Varnish and varnishing:  
current industrial reports, 3169, 10357  
safety engineering in painting and varnishing shops, USSR book excerpts, 15363

Vascular plants, see Plants.

Vascular system, see Cardiovascular system.

Vasilopoulos, Ioannis A., relief, 344, 543

Vasquez, Carlos R. Flores, see Flores-Vasquez, Carlos R.

Vaughan, George G., operations bygrade, anatomy of shutdown, 13972

Vaughan, J. A., coal, Pennsylvania anthracite, 2535

Vaughan, W. W., simple mercury vapor detector for geochemical prospecting, 9568

Ven, in family meals, guide for consumers, 5630

Vector diffraction theory, 7935

Vector integral equations, see Equations.

Vectors (mathematics), see Mathematics.

Vegetable gardens, see Gardens.

Vegetable products, see Agricultural products.

Vegetables:  
bright jewels, guide, for program aides in home economics, 4133  
commercial processing, acreage marketing guides, 6127  
containers, standard acts of 1916 and 1928, repeal—  
hearings, 754, 4636  
report, 889  
culture, etc., publications, price list, 5417  
disinfection by gamma irradiation, dosimetry, tolerance, and shelf life extension, annual report, 5794  
Florida, marketing, 1966 summary, 7839  
fresh—  
acreage, production, etc., 5560  
prices, 1966, Chicago and New York City, 10203  
reducing transport damage in top-iced shipments in bushel baskets, 5646

Vegetables—Continued  
fresh—continued  
shipments by States, commodities, etc., 10873-874  
unloads—  
eastern cities, by commodities, States, etc., 7830  
for 41 cities, 7834  
midwestern cities by commodities, States, etc., 7832  
southern cities, by commodities, States, etc., 7833  
western cities, by commodities, States, etc., 7831

fresh market—  
acreage and estimated production, monthly report, 4034  
acreage, production, and value, 1959-65 revised estimates, 14762  
market news, weekly summary, 3361  
gardening in Caribbean area, 15836  
home—  
canning, 15850  
freezing, 11930  
how to use USDA grades in buying, 5671  
insects and diseases in home garden, 10171  
irradiation preservation, 1784  
perishable agricultural commodities act, fair trading in vegetable industry, 13236  
processed—  
plants under USDA, continuous inspection, list, 16447  
standards for grades, 6135  
USDA inspection service, 11937

processing—  
acreage, production, etc., 1959-65 revised estimates, 14761  
1966, annual summary, 5561  
statistical report, 4035  
seeds, foreign agriculture circulars, 3345  
shelf life, extending by use of radiation technology in postharvest procedures, 5792  
some good choices for thrifty family, variety selection and use, 9339  
spring, acreage market guide, 4661  
storing in basements, cellars, outbuildings, and pits, 5631  
summer and fall, acreage marketing guide, 7828  
vegetable situation, 4033  
vitamin A, good choice for thrifty family, selection, 9337  
vitamin C, good choice for thrifty family, selection, cook suggestions, 9338  
winter, acreage marketing guides, 962, 16441  
zinc deficiency in western crops, 5640  
see also Horticultural products.

Vegetation:  
central Tibet, Chinese studies, 6558  
Cluj City area, Rumania, radioactivity, studies, 1299  
control, railroad beds, chemical methods, USSR study, 12704  
dune stabilization, on Outer Banks, N.C., 16523  
ground cover response on campgrounds after trampling, 14138  
understory, mowing in young teak plantation, 12574  
vegetation and hydrologic phenomena (series), 11171  
Yukon Flats region, Alaska, research report, 5723

Vegetative key to some common Arizona range grasses, 11141

Vehicle Systems Research Office, program, tire research related to safety (lecture), 9946

Vehicles:  
administrative wheeled, treatment, painting, etc., military standard, 4678  
electrical transmission, classification definitions, 18131



**Vehicles—Continued**

equipment components, Federal Item Identification guides for supply cataloging, supplements, 3285  
 identification marking of combat and tactical transport vehicles, 12443  
 mechanically powered hoisting vehicles, maritime safety data, 12765  
 military, symbols to supplement text of instruction plates, military standard, 15197  
 statistical technique for dynamic analysis of vehicles traversing rough yielding and non-yielding surfaces, 8407  
*see also* Airplanes—Electric vehicles—Firefighting vehicles—Lunar roving vehicles—Motor vehicles—Parking of vehicles—Rockets—Spacecraft  
 Velasquez Huerta, Ramiro, relief, 13605, 17533

**Vela Uniform program:**

Project Dribble, Salmon event, seismic decoupling at nuclear level, 1808-10  
 experiment, Tatum Salt Dome, Miss., 8911

**Velocity:**

air current, electronic-mechanical method of measuring, USSR study, 1178  
 display, rectilinear, in spacecraft entry monitoring system, 14439  
 flow, measurements, tracer-spark technique, structure of spark columns in hypersonic stream, 12856  
 gas, measured by laser Doppler flowmeter, 6847  
 high-velocity metalworking survey, 11428  
 meteoric, ionization probability of iron particles, 11406  
 minimum initial impulse under arbitrary initial vector, optimum transfer between 2 terminal points, 1427  
 photographic method measures particles size and velocity in fluid stream, 6826  
 pseudo-sonic, concept in 2-phase flows, 2712  
 smoke-wave technique for measuring velocities in air, evaluation, 10293  
 solids colliding at high speeds, interaction, USSR study, 16744  
 stream with sinusoidally fluctuating velocity in longitudinal direction, drag measurements, 5749  
 variable-length constant-velocity traveling magnetic wave plasma accelerator, experimental investigation, 18034  
 velocities and streamlines, calculating for 2-dimensional, incompressible flow in axial blade rows, 5245  
 velocity and concentration profiles in reverse osmosis systems, simultaneous development, 11218  
 velocity-head coefficients in open channels, 1133  
 wind velocity and temperature combinations, recurrence in lower 100-m layer of atmosphere, experimental calculation, 11565

Velveteen, cotton fabrics exports, trade agreement with Italy, 11845

Venable, H. Dean, thermionic diode controlled power system, 1433

Venango County, Pa., underground combustion oil-recovery experiments in Venango second sand, Reno pool, 11372

**Vending machines:**

business, starting and managing, 8679  
 coin operated, current industrial reports, 13397  
 current industrial reports, 4344

Veneer lathe, 11308

Veneer logs, *see* Logs.

Veneer mills, closures hardwood face, Michigan and Wisconsin, 2308

**Veneers:**

Federal Item Identification guides for supply cataloging, supplements, 3288

**Veneers—Continued**

hardwood face, manufactured in Michigan and Wisconsin, distribution methods and end-uses, 8074  
 recovery volume and value, computer program for calculating, 16644  
 southern pine veneer cores, straight studs as byproducts, 8120  
 veneer volume and grade recovery from ponderosa pine in southwest, 14115  
 veneer yields from Lake States, quaking aspen, 1095

Veneral diseases, fact sheet, 1966, basic statistics on problem in U.S., 10066

Venezia, R., air pollutant emission inventory, 5439

Venezky, D. L., protective coating for magnesium alloys, coordination chemistry of magnesium ion, 10013

**Venezuela:**

background notes, 1623  
 economy, basic data, 5954  
 long term forecasts of supply and demand of agricultural and livestock products, summary and evaluation, 12456  
 mineral industry, minerals yearbook chapter, 12809

Venous occlusion, *see* Embolism.

Venous occlusive cuffs, effects of 9-alpha-fluorohydrocortisone and venous occlusive cuffs on orthostatic deconditioning of prolonged bed rest, 7365

Ventana primitive area, mineral resources, 12604

**Ventilation:**

air handling systems and fire protection, 12594  
 crossflow system for grain storages, 7248  
 shipboard, for hazardous atmospheres, safety in industry, maritime safety data, 8299

Venting, propellant tank, in zero-gravity environment, 5164

Ventricles, *see* Heart.

Ventricular fibrillations, multifocal premature contractions, ECG finding of grave significance, 15897

Vents, toroidal ring prevents gas ignition at vent stack outlet, 9853

Venue, civil action amendment, law, 428

**Venus (planet):**

atmosphere, investigation, 5276  
 meteorology, summary of available knowledge, 11410  
 nominal natural environment for advanced planetary mission programs, 8436  
 physical properties, handbook, 14404

Verde River, water supply outlook and snow survey, 4044

Vereinigete Staaten von Amerika, hinweise für die zollabfertigung für Reisende ohne ständigen Wohnsitz in den Vereinigten Staaten, 13908

Vermeer, James, cropland conversion program, description and appraisal, 9388

Vermilion River and Valley:

basin, engineer report—  
 departmental edition, 4741  
 document edition, 4479

**Vermont:**

area measurement report, 4269  
 census of agriculture, 1964, State and county statistics, 7500  
 census of mineral industries, 1963 area statistics, 5844  
 county business patterns, 10351  
 electric rate book, 11026  
 mineral industry, minerals yearbook chapter, 1405  
 postal map, 5392

Vernon, Richard W., pressure characteristics of nonwetting, condensing flow of mercury in sodium-potassium-cooled, tapered tube, 1498

Vertebrates, small, enzyme method of clearing and staining, 11605

# INDEX 1967

- Vertigelle, Elizabeth C., or helms, relief, 610
- Vertigo, aviators, 17359
- Vesper, William H., behavior of beach fill and borrow area at Sherwood Island State Park, 13976
- Vessels, *see* Shipbuilding—Ships.
- Vessels (utensils), *see* Implements, utensils, etc.
- Vested benefits, 5501
- Vestibular apparatus:
  - adaptation to vestibular disorientation—eye-movements and subjective turning responses to 2 durations of angular acceleration, 15980
  - responses to angular acceleration and to bilateral caloric stimulation following unilateral caloric habituation, 10322
  - special effects of brief periods of visual fixation on nystagmus and sensations of turning, 15981
  - humans and animals, USSR studies, 17864
  - role of vestibular organs in space exploration, 5191
- Vestibular stimulation, disorientation, influence on adaptation of interrupting nystagmic eye movements with opposing stimuli, 7447
- Vestibular system, and human dynamic space orientation, 1428
- Vesting orders, German paintings, under trading with the enemy act, transfer to Germany, hearing, 741
- Vestnik of USSR Academy of Medical Sciences (periodical), 4036
- Vestnik of USSR Academy of Sciences (periodical), 4037
- Veterans:
  - America's servicemen and veterans, legislative proposals, message from the President, 5993
  - attention new veterans! older veterans! Veterans Employment Service will help you start or resume your civilian career, here are facts, 15220
  - benefits—
    - availability and eligibility requirements, legislation passed during 89th Congress, 1660
    - available for veterans and dependents, fact sheet, 5586
    - brief explanation, 11891
    - for you from a grateful nation, 18250
    - laws, compilation, 755
    - slide chart calculator, 6045
    - State laws, digests, 16345
  - claims, settlement, agreement with Philippines, 17234
  - code of Federal regulations, 11043
  - county veteran population, Dec. 1966, estimates by States, 17283
  - deceased or disabled, educational assistance for their sons and daughters, 17285
  - disabled, benefits, 2966
  - employment services, 1020
  - home-buying guide, 17286
  - home mortgage insurance, FHA, 11201
  - hospitalized writing contest news, 5584
  - jobs, now, about that job, A B C's for veterans, 14715
  - laws, compilation, supplement, 1995
  - legislative recommendations of organizations, hearings, 9172
  - loans, VA guaranty and direct programs for housing, hearings, 12319
  - medical care, history of Veterans' Administration medical program, 12318
  - national service life insurance, regular dividend schedules, 8780
  - nursing home care in Alaska and Hawaii, eliminate certain requirements, report, 6007
  - pensions and readjustment assistance act of 1967—
    - law, 16133
    - report, 14963
- Veterans—Continued
  - readjustment assistance, permanent program of education, etc., allowance increase, etc.—
    - hearings, 7758, 10859
    - law, 16133
    - report, 10792
  - reemployment rights, information sheet, 17288
  - United States, census 1960, personal, family, housing characteristics of men who served in Armed Forces during war and peace, 9175
  - Vietnam conflict—
    - additional wartime benefits, hearings, 7759
    - pension and readjustment act of 1967, report, 7712
  - Vietnam disabled, rehabilitation (remarks), 18143
  - Vietnam era readjustment assistance act, reports, 4507, 4596
  - World War I, loans made upon security of adjusted-service, certificates, cancel certain unpaid interest—
    - law, 449
    - report, 918
  - see also* Life Insurance—Pensions.
- Veterans Administration:
  - acquired residential properties, savings possible by consolidating management, GAO report, 11158
  - appropriations, 1967, supplemental, hearings, 2040
  - appropriations, 1968—
    - hearings, 9145, 15147
    - reports, 10600, 15131
  - benefits in brief, serving those who served, 11891
  - building management officers, career opportunities, etc., 18249
  - brain research, 8783
  - career opportunities—
    - manual arts therapists, 14713
    - practical nursing, 10127
    - psychology, examination announcement, 12113
  - careers in automatic data processing, 17287
  - cost reductions, 5587
  - hospital and medical program, operations, 9173
  - hospital, location in Riverside-San Bernardino area, Calif., establish, hearings, 10682
  - hospitals—
    - construction, modernization, employee benefits, etc., hearings, 9174
    - veterans' views on medical care, 1967 survey, 10683
  - hospitals and clinics, corrective therapists, career opportunities, 15816
  - housing loans guaranteed in Illinois, potential savings by revising procedures relating to default, GAO report, 11151
  - land conveyance to—
    - Batavia, N.Y.—
      - law, 12167
      - reports, 703, 6004
    - Pinellas County, Fla.—
      - law, 369
      - report, 900
    - Temple, Tex., report, 6006
    - Tennessee for use of Memphis State University, hearing, 9326
  - laws administered by, compilation, 755
  - librarians, examination announcement, 10411
  - loan guaranty and direct loan programs, etc., hearings, 12319
  - management internships, 8781
  - manual, 8780
  - medical care of veterans, history of VA medical program, 12318
  - medical research program 1966, synopsis, 2963

**Veterans Administration—Continued**  
 medical research, reports, 4563, 7218  
 medical training, major contribution to  
 Nation's health resources, 8782  
 mortgage foreclosures, handling by Justice  
 Department—  
   hearings, 15031  
   report, 14947  
 nursing home care programs, operation,  
   hearings, 15050  
 personnel information bulletin, 3681  
 publications, index, 2961, 17282  
 purchasing, VA invites you to submit your  
 product or service, 2965  
 report, 1966—  
   departmental edition, 7217  
   document edition, 5979  
 research into spinal cord injuries, law, 419  
 research monographs, 17283  
 technical reports, 13171  
 these are yours, salary, life insurance, etc.,  
   employee information, 15815  
 training and education of health service  
   personnel—  
   clarify responsibility, law, 489  
   Public law 89-785, lack of implementa-  
   tion, hearings, 16344  
 VA-Armed Forces Pulmonary Diseases Re-  
 search Conference, transactions, 13172  
 VA monographs, 17284, 18247  
 VA pamphlets, 1661, 2964-66, 5587, 7219,  
   8781-83, 10127, 13173, 14710-713,  
   15815-817, 17285-287, 18248-250  
 you and VA, employee's guide, 2964  
 Veterans Administration Center, Dayton,  
 Ohio, residency training in internal medi-  
 cine, 15818  
 Veterans' Affairs Committee, House :  
   calendar, 3485  
   committee prints, 755, 4563, 9173, 9175,  
   10683, 12318, 16345  
   hearings, 7758-59, 9172, 9174, 10681-682,  
   12319, 13718, 15050, 16344, 17613  
   investigations and studies—  
   authorization, report, 6019  
   expenses, report, 7720  
   reports, 703, 4496, 4507, 6004-7, 7709,  
   7712  
 Veterans Appeals Board, rules of practice,  
 14710  
 Veterans Canteen Service, Veterans Admin-  
 istration, examination of financial state-  
 ments, 1966, GAO examination, 4865  
 Veterans hospitals :  
   amendments of 1966, law, 489  
   building management officers, Veterans  
   Administration, career opportunities,  
   etc., 18249  
   career information for—  
   librarians, 18248  
   manual arts therapists, 14713  
   occupational therapists, 14712  
   social workers, 14711  
   Columbia, S.C., operation, hearing, 13718  
   construction, modernization, employee  
   benefits, etc., hearings, 9174  
   dietetic internship, 13173  
   location in Riverside-San Bernardino area,  
   Calif., establish, hearings, 10682  
   medico-moral ethics for hospital ministry  
   (papers), 15817  
   operations of VA program, 9173  
   use of Veterans Memorial Hospital, grants-  
   in-aid for medical care, etc., agreement  
   with Philippines, 14685  
   VA nursing home care programs, opera-  
   tion, hearings, 15050  
   veterans' views on medical care, 1967 sur-  
   vey, 10683  
   volunteer workers, handbook, 1661  
 Veterans of Foreign Wars of United States :  
   convention proceedings, 9054  
   legislative program, hearings, 9172  
 Veterans organizations, legislative recom-  
 mendations, hearings, 9172  
 see also names of organizations.

**Veterinarians :**  
 Agriculture Department, career opportuni-  
 ties, 5657  
 careers in Public Health Service, 18156  
 examination announcement, amendment,  
 12100  
 trainee, summer employment for juniors  
 in veterinary medicine, examination an-  
 nouncement, 17463  
 Veterinary Biological Division, notices, 5619,  
 15832  
 Veterinary instruments and apparatus,  
 equipment and supplies, Federal item iden-  
 tification guides for supply cataloging,  
 supplements, 3290  
 Veterinary medicine :  
   Bulgaria, problems, 1208  
   education facilities, construction grants  
   and student loan program, law, 423  
   role in future (remarks), 13253  
   Veterinary supplies, see Veterinary Instru-  
   ments and apparatus.  
 Veterinary zoology, see Zoology.  
 Vette, James L., models of trapped radiation  
 environment electrons at synchronous alti-  
 tudes, 8437  
 VFR, see Visual flight rules.  
 VHF, see Omnidirections.  
 Viaje por un nuevo mundo de manjares,  
 visite los Estados Unidos, 17280  
**Vibration :**  
   analysis of cylindrically curved panels  
   with simply supported or clamped edges,  
   5263  
   analysis utilizing Mossbauer effect, 17962  
   axisymmetric—  
   paraboloidal shells of revolution, differ-  
   ential equations, 17946  
   partially liquid-filled cylindrical con-  
   tainers, 12942  
   channel, monitoring system determines am-  
   plitudes and time, 8479  
   compressor blades, reduced by wire mater-  
   ial, 6824  
   concrete, study, review of literature,  
   13985  
   coupled vibration and dissociation relaxa-  
   tion behind strong shock waves in car-  
   bon dioxide, 6908  
   diseases, prophylaxis, USSR study, 11265  
   earth, from nuclear explosion in salt dome,  
   Project Dribble, Salmon event, 8911  
   heat exchanger tubes supported in high  
   vibration environment, 5220  
   hollow elastic cylinder bonded to thin  
   casing of different material, 18048  
   in space vehicles, 17705  
   loads, cushioned by friction brake, 6771  
   longitudinal and torsional, in nonuniform  
   multibranch beams, matrix analysis,  
   6886  
   matrix-bolzer analyses for fully-coupled  
   vibrations of clustered launch-vehicle  
   configurations, 5158  
   measured dissociation-rate constants and  
   their effects on coupled vibrational-dis-  
   sociational flows of oxygen over wedge,  
   interpretations, 12943  
   measurement of low frequency, vibrations  
   in big helicopters and their transmission  
   to pilot, 11564  
   mechanical, effect on performance of super-  
   conducting magnets, 11511  
   molecular vibrational frequencies, tables,  
   8524, 18077  
   Monticello Dam studies, 17181  
   nonlinear flexural vibrations of thin-  
   walled circular cylinders, 14482  
   pressurized torus shell, study, 16907-908  
   prestressed shells of revolution, 6878  
   rectangular plates with various boundary  
   conditions, effect of edge loadings, er-  
   rata, 12919  
   reducing machinery vibration by use of  
   post-stressed concrete foundation, 15189

# INDEX 1967

- Vibration—Continued  
 rocket engine, accurately measured by  
 photography, 6812  
 shock and vibration monograph series,  
 17705  
 structural, interaction with sound fields,  
 9835  
 system precisely controls oscillation of  
 vibrating mass, 16938  
 test platform, produced limitations on  
 inertial sensor testing, 1492  
 testing, air spring suspension system,  
 automatically controlled, 9881  
 upper and lower bounds for eigenvalues of  
 vibrating beams with linearly varying  
 axial load, 2609  
 vibrating slope method for measuring con-  
 crete workability, 4742  
 Vibration mounts, resonant frequency can  
 be adjusted, 6829  
 Vibrators, elapsed operating time, automati-  
 cally controlled, 15548  
 Vibratory compaction of mine hydraulic  
 backfill, 9774  
 Vice President of United States :  
 election campaign fund act—  
 laws, 513, 9177, 12168  
 legislative histories, 7762, 13719  
 reports, 702, 10614  
 Senate amendments, summary, 4567  
 elections, amend equal time provisions of  
 communications act, hearings, 16400  
 Vlcno, Frank L., decision making with up-  
 dated graphic vs. alpha-numeric informa-  
 tion, 10282A  
 Vicksburg, Miss., Mississippi River and trib-  
 utaries in district, stages and discharges,  
 12477  
 Victorella, new species from southern Cali-  
 fornia, 9953  
 Vidal Santiago, Jorge S., relief, 13746  
 Video display systems, see Display systems.  
 Video recording system, recording and time  
 expansion technique for high-speed, single-  
 shot transient video signal, 11468  
 Videon, F. F. :  
 apparent crater studies, 4237  
 crater measurements, 4236  
 Vidicons, IR scanner monitors many test  
 points, 15545  
 Vientiane, Laos, plain, socio-economic study,  
 6578  
 Viet Cong terror tactics in South Viet-Nam,  
 17218  
 Viet-Nam, see Vietnam.  
 Vietnam :  
 answering aggression in Viet-Nam (re-  
 marks), 18228  
 Armed Forces members voluntarily ex-  
 tending tour of duty in hostile fire  
 area, authorize special 30-day period  
 of leave—  
 hearing, 716  
 law, 448  
 Asia, Pacific and United States, hearing,  
 6099  
 background information, revision, 13860  
 central issue (discussion), 18229  
 central, slash-burn agriculture among  
 mountain tribes, 14246  
 commercial commodity import program,  
 followup investigation, report, 14997  
 commodity import program, U.S., foreign  
 aid, improper practices, hearings,  
 10844  
 conflict, effect on economy—  
 hearings, 12187  
 report, 13814  
 conflict servicemen and veterans act of  
 1967, message from the President, 5993  
 dear student leaders, correspondence ex-  
 change on Viet-Nam, 7143  
 French reactions to American involve-  
 ment, 5703  
 Hungarian journalist reports on war, 4988  
 Vietnam—Continued  
 imports, commercial, AID's management  
 and operation of program, GAO review,  
 15302  
 in brief, U.S. commitment, etc., 14674  
 Income tax administration, agreement,  
 15775  
 information notes (series), 8713-16,  
 11822-824, 13137, 14672-673, 17218-  
 219  
 maps, including indexes, etc., 16153  
 print as House document, reports,  
 16228, 16359  
 Marine Corps small unit action, 8332  
 news policies, hearings, 953  
 North—  
 air war against, hearings, 16394  
 bombings of civilians by U.S., reports  
 by pro-Communist eyewitnesses, 4955  
 Cuban correspondents report, 15410  
 East German couple interviewed North  
 Vietnamese on Vietnam war, 12672  
 East German couple reports on trip to  
 North Vietnam, 11266  
 Italian physicist tells of culture and  
 civilization as bombs fall, 12699  
 Madeleine Riffaud, Communist reporter,  
 reports her visit, 1294  
 mineral industry, minerals yearbook  
 chapter, 11358-359  
 translations, 3964  
 trip of Harrison E. Salisbury, hearing,  
 6105  
 off-shore fishery development, agreement,  
 17238  
 path to Viet-Nam, lesson in involvement  
 (address), 17220  
 port situation, followup investigation,  
 report, 14998  
 postal services of U.S. Armed Forces, on-  
 site inspection, report, 4505  
 Republic—  
 agricultural commodities, agreement,  
 2902, 7179, 8734, 15783, 15804  
 airlift and seallift to South Vietnam,  
 report, 10809  
 American civilians, application of Uni-  
 form Code of Military Justice, 16334  
 Army area handbook, 13297  
 background notes, 11820  
 basic data, 8713, 18822  
 climate, annotated bibliography, 16539  
 Communist-directed forces in South  
 Viet-Nam, 8715, 13137  
 Communist insurgent infrastructure,  
 organization and strategy, 13298  
 construction activities of United States,  
 GAO report, 11159  
 economy, basic data, 7577  
 enemy threat, free world forces (other  
 than U.S.), revolutionary develop-  
 ment program, and economy, report,  
 10811  
 free world assistance, 8716  
 mineral industry, minerals yearbook  
 chapter, 11358-359  
 minority groups, ethnographic study  
 series, 5735  
 national reconciliation in South Viet-  
 Nam, 14673  
 political development, 11823  
 rehabilitation, other war in Vietnam,  
 progress reports, 1151, 1627  
 religions of South Vietnam in faith and  
 fact, 14587  
 shipping policy review, hearing, 743  
 tunnels, environmental characteristics,  
 15229  
 U.S. Army status, report, 10814  
 Viet Cong terror tactics in South Viet-  
 Nam, 17218  
 search for peace in Viet-Nam, 8714, 14672  
 selected bibliography, 15805  
 South, see, above, Republic.  
 undeclared war, assistance to enemies of  
 U.S., make punishable, reports, 2017,  
 2019, 10618, 12263

Vietnam—Continued  
United States—

- agencies audit and inspection programs, 1966, State Department International Development Agency, Defense Department, GAO review, 9553
- economic program, illicit practices affecting, followup investigation, report, 14996
- Govt. personnel in high-risk situation, additional benefits, report, 9295
- veterans of conflict—
  - additional wartime benefits, hearings, 7759
  - pension and readjustment act of 1967, report, 7712
- veterans returning disabled, rehabilitation (remarks), 18143
- Vietnam era veterans' pension and readjustment assistance act of 1967—
  - law, 16133
  - reports, 4507, 4596, 14963
- Vietnam in brief, U.S. commitment, etc., 11825
- war, economic impact of Vietnam (remarks), 10453
- why we fight in Viet-Nam, 11824
- Vietnam Week, Communist origin and manipulation, report, 7757
- Vietnamese language, basic courses, 7195, 10106
- Viets, Frank G., Jr., zinc deficiency of field and vegetable crops in West, 5640
- Viewers (photography):
  - devices for photo interpretation, relative effectiveness, 10283
- Vigilance:
  - auditory, as affected by signal rate and intersignal interval variability, 11346
  - effects of signal patterning upon vigilance performance, 8585
  - human and animal, bibliography and index, 9753
  - performance and physiological responses under fixed and variable schedules, 14590
  - signal presentation rate, auditory threshold and group vigilance, 11349
- Vignette of mountain peasant life, 15376
- Vila, Enrique A. Rojas-, *see* Rojas-Vila, Enrique A.
- Villagomez, Joaquin U., relief, 538
- Vilna, Lithuania, travel to Vil'nyus, Finnish brochure, 15429
- Vil'nyus, *see* Vilna, Lithuania.
- Vincent, Thomas L., treating optimal trajectories with restricted segments, 9805
- Vincent, W. S., International Symposium on Nucleolus, structure and function, 7074
- Vines, woody, for southern Great Plains, selecting, planting, etc., 1688
- Vinti, John P.:
  - differential corrections applied to his accurate reference satellite orbit with inclusion of 3d zonal harmonic, 15564
  - orbital prediction and differential correction using Vinti's spheroidal theory for artificial satellites, 8482
- Violation investigation and reporting, FAA handbook, 2233
- Virgin Islands:
  - agriculture departments, 1967 directory, 7836
  - climatological data, 3096
  - coast pilot, 17467
  - supplement, 7553
  - coastal warning facilities chart, 11905
  - commemorative air mail postal card (poster), 7039
  - county business patterns, 13385
  - dutiable status of watches, etc., amend tariff schedules—
    - law, 509
    - report, 911
  - Governor, etc., popular election, amend organic act—
    - hearings, 10852

Virgin Islands—Continued  
Governor, etc.—Continued

- report, 10751
- Governor, 1966 annual report, 14195
- nautical chart catalog, 4415
- nurses in public health, number, educational preparation, etc., 17155
- social security tax guide for employers, 2402
- soil survey laboratory data and descriptions, 14661
- U.S., our Caribbean gems, description, history, etc., 18240
- Virgin Islands Corporation:
  - audit report, 14927
  - federally owned electric power and salt water distillation facilities, sale to government of Virgin Islands, GAO review, 8146
  - financial statements, 1966, GAO examination, 14151
- Virgin Islands National Bank, permit Edward C. Bower to serve as director prior to obtaining U.S. citizenship, 252, 782, 4497
- Virginia:
  - area measurement reports, 5815, 12035
  - census of agriculture, 1964, State and county statistics, 16036
  - census of manufactures, 1963, area statistics, 1853
  - census of mineral industries, 1963, area statistics, 5845
  - climatological data, 3096
  - county business patterns, 4320, 13382
  - fossil marine mammals from Miocene Calvert Formation, 1530
  - landings, fish and shellfish, 4038
  - annual summary, 16618
  - mineral industry, minerals yearbook chapter, 6669
  - precipitation data, hourly, 3401
  - timber resources, survey report, 15290
  - transit compact, approval—
    - hearing, 2132
    - law, 478
    - report, 654
- Virginia Stage Lines, Inc., motor carrier accident, 6476
- Viral coefficients, *see* Coefficients.
- Virology, *see* Viruses.
- Viruses:
  - biochemistry of viruses, USSR study, 15364
  - effect on chromosome rearrangements and mitotic activity in cells of human tissue cultures, USSR study, 4963
  - electron microscope technique, use in oncogenic virology, 8269
  - etiology of human leukemias, recent research, Rumanian studies, 6549
  - infectious, and tumor interaction, quantitative aspects, USSR study, 6580
  - research on evolution of virus theory of tumor origin, USSR study, 9655
  - Rous sarcoma, cystic lymphadenopathy of rats, pathogenesis, USSR study, 6554
  - simians, Rumanian studies, 6529
  - Soviet—
    - research in virology, 4993
    - studies, 9616
  - SV 40 virus, simian vacuolating agent, Polish study, 9653
  - tumor, and cell structure, virological studies, USSR, 6562
  - use of modified live virus vaccines to prevent hog cholera, GAO review, 9549
  - USSR studies, 6516
  - viral antibody production in animals exposed to space cabin environment, 74
  - viruses in oncology, USSR study, 14258
  - see also* Polyoma virus—also names of virus diseases.
- Visa Office, annual report, 2878
- Vis-A-Plan (visualize a plan) management technique provides performance-time scale, 15531

Visas, *see* Passports.  
 Visco seal design offers zero-leakage and wear-free characteristics, 8470  
 Viscosimeters:  
   absolute viscosity measured using instrumented parallel plate system, 8467  
   capillary tube bore nonuniformity, correction, 14337  
   physical parameters for use in absolute gas viscosimeter, 11378  
   stainless steel coiled-capillary, steady-state laminar flow boundary conditions, 14350  
 Viscosity:  
   absolute, measured using instrumented parallel plate system, 8467  
   coefficients of dilute nitrogen and oxygen, 5293  
   dilute neon, krypton, and xenon, 11589  
   mix ratio for adhesives, use of flowmeter to determine, 17988  
   standard lead-silica glass, 1520  
   supersonic aerodynamics, effects, handbook, 1542  
   surface, of polydimethylsiloxane monolayers, 8592  
 Viscous flow, *see* Flow.  
 Visibility, improving during periods of supercooled fog, 7381  
 Vision, *see* Binocular vision—Eyes—Sight.  
 Visiting housekeepers:  
   homemaker services—  
     conference on personal care, 5460  
     how it helps children, 7512  
 Visitors:  
   international, plant tours for welcoming to U.S., listing, 11888  
   meet Americans at home, 10126  
   tax information for visitors to United States, 9600  
 VISTA, *see* Volunteers in Service to America.  
 Visual acuity, *see* Acuity.  
 Visual aids:  
   flexible containers inspection, 13901  
   graphic presentation, management tool, development of visual aids, handbook, 17691  
   metal containers inspection, 4662  
   rigid and semirigid containers inspection, 13900  
   USDA-C&MS visual aid series, 4662, 13901  
 Visual attitude orientation and alignment system, 11457  
 Visual flight rules, aviation, air traffic patterns, 17740  
 Visual illusions and aircraft accidents, 11958  
 Visual instruction, using visuals in agricultural extension programs, 16569  
 Visual perception, *see* Perception.  
 Visual signals, 5727  
 Vital force, energy, requirements of normal adults residing at 4300 meters for 28 days, 14806  
 Vital partnership, 9010  
 Vital statistics:  
   analytical studies, 5466, 7097, 8659, 17167  
   data evaluation and methods research, 2842, 7096, 8657-58, 11762, 13098  
   data from national health survey, 5467-70, 7098, 8660-61, 10067-69, 11763-764, 13099, 14637-639, 17168-170, 18188-189  
   data from National Vital Statistics System, 5471, 8662, 15715, 17171-172  
   provisional, monthly report, 3582  
   United States, 7099, 10070, 15716-717, 18190  
   *see also* Birth—Death—Still-birth.  
 Vitamins:  
   essential for growth of channel catfish, 8042  
   mechanism of artificial abortion by use of ascorbic acid, USSR study, 1276  
   salmon, diets, studies of vitamin levels, supplements, FDA fact sheet, 6359

Vityaz (USSR ocean survey ship):  
   biological problems studied, 11269  
   measurement of propagation velocity of elastic oscillations in surface layer of Indian Ocean water, 15353  
 Vocational education:  
   amendments of 1966, hearings, 4532  
   area vocational schools, vital part of Nation's educational system, 4707  
   bibliography, annotated, selected references, 1917-66, below college, 9414  
   bulletin, 7889  
   determining courses of study, 1017  
   improve programs—  
     hearings, 7742, 9153, 12419, 17664  
     reports, 9118, 10557  
   Indians, adult, program, appropriations, increase, report, 15079, 16283  
   Job Corps men's urban centers, vocational course entry requirements, 12448  
   new directions, case studies in change, 17719  
   programs, administration, rules and regulations, 7889  
   student loan insurance act of 1965—  
     amend, hearings, 15026  
     eligible institutions, list, 2181  
     supplement, 6181  
   program, payment tables and amortization schedules, 7910  
   vocational and technical institute, establish in D.C.—  
     law, 495  
     report, 693  
   vocational-technical program development, State reports, 6196  
 Vocational guidance:  
   counselor's desk aid, 18 basic vocational directions, summary information, 13969  
   interest check list, instructions for administering and using, 16516  
   services for New York City women, 5599  
   staff, guidelines for organization and operation of vocational evaluation units, training guide, 11892  
 Vocational rehabilitation, *see* Rehabilitation of the disabled.  
 Vocational Rehabilitation Administration:  
   annual report, 11894  
   grant programs, progress report, 5589  
   research and demonstration projects, 1967, annotated list, 10130  
 Voegelien, L. Belle:  
   classification—  
     class G, geography, anthropology, folklore, manners and customs, recreation, 5086  
     class L, education, 5087  
     class Q, science, 9749  
     class R, medicine, 5088  
     class U, military science, 2528  
 Vogel, James A., cardiopulmonary responses of resting man during early exposure to high altitude, 7413  
 Vogler, Raymond D., investigation over moving ground plane of transport airplane model, etc., 14477  
 Vohr, John, superlaminar flow between non-concentric rotating cylinders, 12852  
 Voice communication, partially masked by noise, transcriber confidence in relation to accuracy of transcription, 5751  
 Voice of America, 5-cent commemorative postage stamp (poster), 13051  
 Voice of the silent stage, 4723  
 Volatilization, *see* Evaporation.  
 Volcanic ash, tuff, etc.:  
   ash-flow sheet, compositionally zoned, in southern Nevada, 1120  
   ash flows associated with Creede caldera, San Juan Mountains, Colo., 8166  
   Irazú Volcano, ash eruptions and erosion control problems, 16686  
 Volcanic rocks, *see* Igneous rocks.  
 Volcanoes:  
   Hawaiian Observatory summary, 3391



Volcanoes—Continued

- United States, general information, 2372
- volcanic hazards at Mount Rainier, Wash., 9562
- Volk, Howard C., generalized potentials for scattering, 11543
- Vollmer, Bernhard, relief, 7634, 13485, 13733
- Volsky, Jorge A., relief, 573
- Voltage dividers, calibrated by simple device, 5145
- Voltage regulators:
  - low-input voltage converter/regulator minimizes external disturbances, 6843
  - voltage regulator/amplifier is self-regulated, 11480
- Voltages:
  - distortion effect of SNAP-8 alternator speed controller and alternator performance results, 12950
  - electronic circuit provides accurate sensing and control of dc voltage, 8396
  - hazards of low voltage electricity, 9711
  - high voltage calibration facility, design and operation, 5292
  - quadrature, at variable frequencies, use parallel-T network for developing, 5361
  - surveillance of volt maintained by saturated standard cells, design, 17042
- Voltic couples, thermogalvanic couples, parameters, USSR study, 1241
- Volume and yield tables:
  - Crossett farm forestry forties, 1966 harvest, 8098
  - Douglas-fir total cubic-foot volume table, formula, 1092
  - Hawaii hardwoods, multivariate equations developed for volume prediction, 8084
  - managed stands of lodgepole pine in Colorado and Wyoming, 11140
- Volume-ratio calibration system for vacuum gauges, 6902
- Volumetric analysis, titrimetry, report, 14518
- Voluntary foreign aid programs, reports of American registered agencies, 2419, 12655
- Voluntary help wanted for war on poverty projects, 9386
- Voluntary program for direct investments, status and prospects, 5964, 7585
- Volunteer workers:
  - competence in telling story of the handicapped (remarks), 18140
  - join VISTA and see the world, 10909
  - older volunteers in Peace Corps, 5381
  - Peace Corps, 5th annual report, 7036
  - public welfare departments, opportunities for volunteers, 13184
  - veterans hospitals, handbook, 1661
  - wanted volunteers, facts to face about our country's youth, 4728
- Volunteers In Service to America:
  - amendments to economic opportunity act—
    - law, 498
    - narrative summary, 9382
  - career planning booklet, 6162
  - fact book, 6167, 16484
  - handbook, 4694
  - join VISTA and see the World, 10909
  - retired teachers, opportunity to reach the forgotten through VISTA, 15208
  - VISTA, at my age? 10914
  - VISTA serves—
    - summary, 4695
    - urban ghetto, rural America, Appalachia, etc., 6168
  - VISTA volunteer (periodical), 4039
  - who, what, where, when, why, how, 6169
- Volz, Marvin D., systems and equipment for packaging and price marking meat and poultry in retail food stores, 7276
- von Hake, Carl A., United States earthquakes, 12121
- von Oberdorff, Elisabeth, relief, 837

- Von Rosenberg, C. W., stall barrier as new preventive in aviation accidents, 1823
- von Stroebel, James M., basic data on economy of Argentina, 4433
- Von Wedel, Frances, claim, 16178
- Voproy astrofiziki (USSR periodical):
  - translations, 15582
- Vorhis, Robert C., hydrologic effects of earthquake of Mar. 27, 1964, outside Alaska, 11177
- Voronezh State University, USSR, living and study conditions of Chinese postgraduate students, 4954
- Voroshilovgrad, Ukrainian SSR, Lugansk locomotive-building plant, bookkeeping organization, USSR study, 1293
- Vortex flow, confined magnetohydrodynamic, analysis, 2606
- Vortex motion:
  - non-rotating vorticity meter, 16910
  - tip, core thickening for application to helicopter rotor noise reduction, 4220
- Vortex valves, *see* Valves.
- Voskhod, *see* Spacecraft.
- Voting:
  - Arkansas State Advisory Committee, report to Civil Rights Commission, 13434
  - Federal voting assistance act of 1955, amend, report, 13817
  - information bulletin, Armed Forces Information and Education, 4040
  - residency voting act of 1967—
    - hearings, 13884
    - message from the President, 10523
    - report, 15108
  - see also* Elections—National Labor Relations Board
- Voting function, *see* Mathematics.
- Voyager, *see* Satellites—Spacecraft
- V/STOL (vertical or short takeoff and landing), *see* Aircraft—Airplanes.
- VTOL (vertical takeoff and landing), *see* Aircraft—Airplanes.
- VULCAN (digital computer depletion program), *see* Electronic computers.

W

- W series, 4058
- W.S. series, 3361
- Waananen, Arvi O., water resources of California, 2124
- Waddell, Ramond C., relay I radiation experiment, 1482
- Wade, James E., radiation monitoring, programmed, instruction book, 15973
- Wade, William R., simulated space environment effects on thermal radiation characteristics of black coatings, 16980
- Waesche, Russell R., nomination, hearings.
- Wage and Hour and Public Contracts Divisions:
  - Interpretative bulletins, 11897, 13178
  - regulations, 15819
  - services to public, 1666, 8789
- Wage chronology, *see* Wages.
- Wage-hour law, *see* Labor standards.
- Wages:
  - accrued vacation pay, deductibility, extend time, law, 406
  - area survey—
    - Akron, Ohio, 17892
    - Albany-Schenectady-Troy, N.Y., 12772
    - Albuquerque, N. Mex., 12770
    - Allentown-Bethlehem-Easton, Pa.-N.J., 11324
    - Atlanta, Ga., 14291
    - Baltimore, Md., 8309
    - Beaumont-Port Arthur-Orange, Tex., 14294
    - Birmingham, Ala., 14286
    - Boise City, Idaho, 17897
    - Boston, Mass., 5069
    - Buffalo, N.Y., 11311
    - Burlington, Vt., 11323
    - Canton, Ohio, 11328

# INDEX 1967

## Wages—Continued

### area survey—continued

Charleston, W. Va., 12771  
 Charlotte, N.C., 14287  
 Chattanooga, Tenn.-Ga., 5062  
 Chicago, Ill., 11293  
 Cincinnati, Ohio-Kentucky-Indiana, 12769  
 Cleveland, Ohio, 5066  
 Columbus, Ohio, 6007  
 Dallas, Tex., 6611  
 Davenport-Rock Island-Moline, Iowa-Ill., 6006  
 Dayton, Ohio, 11316  
 Denver, Colo., 8311  
 Des Moines, Iowa, 11315  
 Detroit, Mich., 11319  
 Fort Worth, Tex., 8307  
 Green Bay, Wis., 5061  
 Greenville, S.C., 14288  
 Houston, Tex., 16819  
 Indianapolis, Ind., 8314  
 Jackson, Miss., 11314  
 Jacksonville, Fla., 9745  
 Kansas City, Mo.-Kans., 8305  
 Lawrence-Haverhill, Mass.-N.H., 15440  
 Little Rock-North Little Rock, Ark., 1361, 17896  
 Los Angeles-Long Beach and Anaheim-Santa Ana-Garden Grove, Calif., 12773  
 Louisville, Ky.-Ind., 11320  
 Lubbock, Tex., 14295  
 Manchester, N.H., 1362, 17895  
 Memphis, Tenn.-Ark., 9746  
 Miami, Fla., 8310  
 Midland and Odessa, Tex., 15441  
 Milwaukee, Wis., 14296  
 Minneapolis-St. Paul, Minn., 11313  
 Muskegon-Muskegon Heights, Mich., 14292  
 New Haven, Conn., 11312  
 New Orleans, La., 11322  
 New York City, 16817  
 Newark and Jersey City, N.J., 11326  
 Norfolk-Portsmouth and Newport News-Hampton, Va., 16816  
 Oklahoma City, Okla., 2503  
 Omaha, Nebr.-Iowa, 6605  
 Paterson-Clifton-Passaic, N.J., 15433  
 Philadelphia, Pa.-N.J., 9743  
 Phoenix, Ariz., 11329  
 Pittsburgh, Pa., 11317  
 Portland, Maine, 5070  
 Portland, Oreg.-Wash., 15442  
 Providence-Pawtucket-Warwick, R.I.-Mass., 14290  
 Raleigh, N.C., 2504  
 Richmond, Va., 8304  
 Rockford, Ill., 14289  
 St. Louis, Mo.-Ill., 8306  
 Salt Lake City, Utah, 8312  
 San Antonio, Tex., 16818  
 San Bernardino, Riverside, Ontario, Calif., 5067  
 San Diego, Calif., 6610  
 San Francisco-Oakland, Calif., 9744  
 San Jose, Calif., 5063  
 Savannah, Ga., 15439  
 Seattle-Everett, Wash., 6609  
 Sioux Falls, S. Dak., 5065  
 South Bend, Ind., 11327  
 Spokane, Wash., 16815  
 Tampa-St. Petersburg, Fla., 2505  
 Toledo, Ohio, 11321  
 Trenton, N.J., 8313  
 Washington, D.C.-Md.-Va., 5068  
 Waterbury, Conn., 11325  
 Waterloo, Iowa, 6008  
 Wichita, Kans., 5064  
 Worcester, Mass., 15443  
 York, Pa., 11318  
 Youngstown-Warren, Ohio, 8368  
 chronology—  
 Aluminum Company of America, 16821  
 American Viscose Corp., 16822

## Wages—Continued

### chronology—continued

Armour and Co., 1350  
 Berkshire Hathaway Inc., 14297  
 bituminous coal mines, 16820  
 Chrysler Corporation, 14285  
 directory, 11331  
 Firestone Tire and Rubber Co. and R. F. Goodrich Co., Akron Plants, 8301  
 General Motors Corp., 2506  
 International Paper Company, Southern Kraft Division, 8315  
 Lockheed California Company, 9742  
 Western Union Telegraph Co., 14299  
 collective farmers, improved, USSR study, 2475  
 community surveys, 6615  
 comparison with OASDIH retirement benefits, 1966 experience, 8690  
 current developments, 3173  
 earnings mobility of MFTA trainees, 11206  
 earnings, present value of estimated lifetime earnings, 13401  
 earnings series—manufacturing, 1939-66, summary, 12775  
 earnings statistics, 1909-66, United States, 2496  
 employee earnings—  
   and hours in retail trade, 8302  
   retail trade, 11332  
   South, metropolitan areas, 5071  
 employment and earnings, and monthly report on labor force (periodical), 3232  
 employment and earnings statistics, 1939-66, for States and areas, 14283  
 equal pay, activity in State legislatures, 2974  
 fair labor standards act—  
   equal pay for equal work, 11897  
   handicapped clients in sheltered workshops, wage payments, technical report, 18252  
   handy reference guide, Spanish edition, 5590  
   how to keep time and pay records, 8786  
   minimum wage standards—  
     amendments, report, 7228  
     evaluation and appraisal, report, 2971  
   overtime pay, computing, highlights, 11895  
 farm labor developments, 3264  
 employment and wage supplement, 3265  
 garnishment, prohibit, hearings, 17594  
 historical data on hours and earnings, selected references, 8323  
 hourly—  
   index for hydraulic turbine establishments, 3413  
   indexes of change for shipyards, 3414  
 industry surveys—  
   communications, 6604  
   fertilizer manufacturing, 12774  
   hospitals, 15448  
   industrial chemicals, 2502  
   laundry and cleaning services, 14298  
   motion picture theaters, 11330  
   synthetic fibers, 8317  
   textile dyeing and finishing, 2501  
   women's and misses' dresses, 6613  
   wool textiles, 15440  
 industry wage and union scale studies, 1955-66, directory, 5072  
 Japan and United States, similarities and contrasts, 16827  
 Japan-United States joint study, 2489  
 maintenance employees at region 6 housing authorities, HUD, GAO review, 2319  
 manufacturing earnings series, 1939-June 1966, summaries, 5083  
 manufacturing industry, developments, summary, 4041  
 minimum—  
   application in agriculture, hearing, 7732  
   District of Columbia law, amend., law, 898  
   report, 4504

- Wages—Continued  
 minimum—continued  
 retail trade, study to measure effects of 1961 amendments, 5591  
 State laws and orders, fringe benefit provisions, 5598  
 naval installations, relief of civilian employees erroneously paid, report, 4581  
 net spendable earnings, monthly release, 3619  
 new pay scales for scientific and technical workers in Bulgaria, 1303  
 nonagricultural industries, measurement, 16825  
 nonmetropolitan areas of South and North Central regions, 15447  
 occupational earnings and wage trends in metropolitan areas, 11334, 16830, 17899  
 occupational groups in metropolitan areas, trends, 17901  
 publications, list, 3623  
 railroad employees, class 1 railroads, 4012  
 rate determinations for construction of Carters Dam, Ga., Labor Dept., GAO review, 4878  
 respective roles of monetary, fiscal and wage price gulldpost policies in 1967 (remarks), 1965  
 seafaring wage rates, Atlantic, Gulf and Pacific districts, 14313  
 seamen, recommendations of ILO convention, withdrawal of treaty, text, 15064  
 social security deductions, establishment reporting plan, 1604  
 students, full-time employment at special minimum wages, 7229, 18251  
 sugar act of 1938, as amended, 1967 wage requirements, 8814  
 Spanish edition, 8845  
 sugar, rate determination, 3911  
 supplementary compensation, selected references, 5082  
 telephone company employees, FCC rules and regulations, 3279  
 union—  
 building trades, 14301  
 local-transit operating employees, 14300  
 motortruck drivers and helpers, 15444  
 printing industry, 15445  
 wage board employees, adjusting pay rates, hearings, 12425, 16432  
 wage calendar for 1967, changes, fringe benefits, etc., 5081  
 wage indexes, long-term trend data for selected occupations and metropolitan areas, 5059  
 wages and related benefits—  
 metropolitan areas—  
 occupational earnings, supplementary practices, 5056  
 revised pages, 16814  
 United States and regional summaries, 14284  
 women, equal pay under Fair labor standards act as amended, 7224  
 workers covered by State unemployment insurance laws, 3233  
 see also Payroll deductions.  
 Wages and Industrial Relations Division, publications, list, 3623  
 Wagner, A. James, objective numerical prediction out to 6 days using primitive equation model, test case, 12479  
 Wagner, Bartlett A., planetarium, elementary-school teaching resource, 5278  
 Wagner, Bernard, housing in Jordan, 6420  
 Wagner, C. A., use of resonant librating orbits in satellite geodesy, 14476  
 Waisman, Don A., foreign trade regulations of Brazil, 17479  
 Waists, make waistline fit on pants, 7282  
 Walt, I. R.:  
 radio science, 3803  
 radio science, journal of research, 2736  
 Walte, Charles L., cerebral air embolism, 12793  
 Walte, Paul J., climates of States, Iowa, 9425  
 Wakes, their structure and influence upon aerodynamic decelerators, 9808  
 Walasek, Zofia, relief, 19724  
 Walden, Harvey:  
 differential corrections applied to Vinti's accurate reference satellite orbit with inclusion of 3d zonal harmonic, 15564  
 orbital prediction and differential correction using Vinti's spheroidal theory for artificial satellites, 8482  
 Waldman, Saul:  
 income-loss protection against short-term sickness, 1948-65, 2866  
 OASDI retirement benefits, prices, and wages, 1966 experience, 8690  
 Waldron, Howard H., debris flow and erosion control problems caused by ash eruptions of Irazu Volcano, Costa Rica, 16686  
 Wales, C. P., changing discharge capacity of silver oxide electrode by charging with interrupted current, 9998  
 Wales, west coast, sailing directions, change, 8570  
 Walker, R. L., jr., micrometer measures of 256 double stars, 11628  
 Walker, Robert H., establishing business in Belgium, 4435  
 Walker, T. C., feasibility, etc., ungulded solid fuel rocket vehicle with solar orbit, earth probe, and re-entry mission capabilities, 12853  
 Walking, more hiking space, 7292  
 Walkotien, W. J., elevation effects on rainfall near Hollis, Alaska, 16655  
 Wall, Brian R., forest industries of eastern Washington, 8123  
 Walla Walla, Wash., fog dispersal experiments using propane, 11984  
 Walla Walla project:  
 construction of Touchet division—  
 hearing, 13870  
 report, 15115  
 Wallace, Richard A., polymer structure and ionic transport of polystyrenesulfonate model membranes, 9592  
 Wallace, Robert A., address, Oct. 24, 1967, 18244  
 Wallace, Roger, proceedings of symposium on biological interpretation of dose from accelerator-produced radiation, 15960  
 Wallace, Sarah L., quarterly journal of Library of Congress, 3795  
 Wallace, Idaho, Galena mine, stress ellipsoid determination in rock-burst-prone areas, 14351  
 Waller, Roger M.:  
 effects of Mar. 1964 Alaska earthquake on hydrology of—  
 Anchorage area, 1123  
 south-central Alaska, 1122  
 Walling, Faulkner B., water requirements of iron and steel industry, 12617  
 Walnuts:  
 and related species, annotated bibliography, 8108  
 black—  
 planting for timber, 32  
 timber resources and industries, 8121  
 chemical weed control in 2 year old planting, 14098  
 Walpole, Norman C., area handbook for Saudi Arabia, 5733  
 Walsh, Don, lecture, Feb. 17, 1965, 1602  
 Walsh, Robert M., talk, June 21, 1966, 12460  
 Walsh-Healey public contracts act, see Government contracts.  
 Walter Reed Army Medical Center:  
 military construction, authorization—  
 law, 458  
 report, 919  
 Walters, Jack G.:  
 chloroform extractions of coals and chars, 12826

# INDEX 1967

- Walters, Jack G.—Continued  
yields and analyses of tars and light oils  
from carbonization of U.S. coals, 16850
- Walters, Roger E., improved methods, techniques, and equipment for cleaning eggs, 4122
- Walther Herwig (research vessel):  
West German fishery research vessel, 17772
- Walton, Paul T., oil and gas lease, reinstate, report, 10740
- Walton, T. R., influence of fire-retardant undercoat on burning characteristics of combustible topcoat, 13036
- Walton, William C., Jr., procedure for computing motion of lunar-landing vehicle during landing impact, 18043
- Wang, James Ting-shun, on differential equations of axisymmetric vibration of paraboloidal shells of revolution, 17946
- Wang, Kung-Lee, interindustry structure of U.S. mining industries, 11356
- Wang, R. P., mineral industry of mainland China, 5115
- Wanhainen, John P., acoustic liners to suppress screech in hydrogen-oxygen rockets, 6870
- War:  
assistance to enemies of U.S., in time of undeclared war, make punishable, reports, 10618, 12263  
control of local conflict, design study, 15924  
sinews, Army logistics 1775-1953, 1397
- Vietnam—  
assistance to enemies of U.S., in time of undeclared war, make punishable, reports, 2017, 2019  
Hungarian journalist reports, 4988  
war hazards compensation act, regulations governing administration, 4726  
war or peace in Middle East, study mission report, 10837
- War claims, *see* Claims.
- War of 1812, service records, pamphlet to accompany microcopy, Mississippi Territory, volunteers, 18070
- War on hunger, monthly news report, 8229
- Ward, Chester L.:  
body volume of adult men, 14780  
scuba diving, biologic and physical aspects, 11953
- Ward, Cordelia T.:  
major collective bargaining agreement expirations, 16824  
wage calendar for 1967, outlook, etc., 5081
- Ward, Helen L., radioisotopes in biological sciences, annotated bibliography, 10304
- Ward, John F., exploratory flight investigation and analysis of structural loads encountered by helicopter hingeless rotor system, 1487
- Ward, Ray, background material on economy in Government, 9042
- Ward, Robert D., relief, 768
- Warehouse examiners, examination announcement, amdt., 202
- Warehouses:  
commercial service plan, Defense Dept., general merchandise and refrigerated storage, 15182  
cotton, fire prevention program, 13237  
grocery, use of adhesive labels for price-marking cases, 10155  
refrigerated, directory, 5559
- Warfare, *see* Air warfare—Chemical warfare—Guerrilla warfare—Submarine warfare—War.
- Wargo, M. J., human operator response speed, frequency, and flexibility, 16904
- Warm air furnaces, *see* Furnaces.
- Warner, Dianne, beautiful junk, 17709
- Warner, Robert E., mechanism of deuteron breakup by 42-Mev alpha particles, 18032
- Warning systems:  
emergency broadcast system, basic plan, 14016, 17450
- Warning systems—Continued  
NAWAS, national warning system operations manual, 5914  
outdoor, principles of sound and their application, 5915  
programmed orientation to civil defense, 13431  
security system monitors up to 15 remote areas simultaneously, 2665  
seismic sea wave, reporting procedures for tide observers, 4412
- Warnke, Paul C., nomination, hearing, 15148
- Warrant officers, *see* Coast Guard Reserve.
- Warren, Bruce H., determination of inflight biochemical responses utilizing parotid fluid collection technic, 4187
- Warren, Doria E., relief of children, 13575
- Warren, Ohio, area wage survey, 8308
- Warren County, Tenn., soil survey report, 17208
- Warrior River, Holt Lock and Dam, spillway and navigation conditions, hydraulic model investigation, 4744
- Warsaw, Poland, East of the Elbe, study mission, report, 6104
- Warships:  
loan to Brazil, agreements, 15788, 15798  
loans, extension, etc.—  
hearing, 7737  
report, 10555  
loans to friendly foreign countries, authorize extension, reports, 2025, 2101, 16271  
naval vessels, antibacteriological defense and decontamination, USSR study, 8248  
structures behaviour, survey of recent British work, 5488
- Warwick, R.I., area wage survey, 14290
- Washers (metal, etc.):  
Federal item identification guide, 16463
- Washichek, Jack N.:  
water supply outlook and Federal-State-private cooperative snow surveys for—  
Colorado and New Mexico, 4045  
early season snow survey for Colorado, 5519  
special snow report for Colorado, 15750
- Washington, George:  
brief biography, 14555  
farewell address to people of U.S., text, 5976  
print additional copies, report, 2018  
5-cent commemorative postage stamp (poster), 18133
- Washington, Sylvia H., bibliography, Labor management relations act, 1947, as amended by Labor-management reporting and disclosure act, 11599
- Washington, D.C., *see* Capital of United States—District of Columbia.
- Washington Channel:  
bridge to East Potomac Park, with visitor facilities, construct, hearings, 750  
waterfront priority holders, amend act, reports, 895, 7700
- Washington Metropolitan Area Transit Authority:  
compact, approval—  
hearing, 2132  
law, 478  
report, 654
- Washington Monument, general information, 14555
- Washington State:  
Blue Mountains, defect estimation for grand fir, Engelmann spruce, Douglas-fir, and western larch, 2289  
census of agriculture, 1964, State and county statistics, 13411  
census of mineral industries, 1963, area statistics, 5846  
climatological data, 3096  
coast pilot supplement, 5944  
county business patterns, 1870, 13383  
eastern, forest industries, 8123  
electric rate book, 2253

Washington State—Continued  
 Grays Harbor basin, Lincoln Creek formation, 12603  
 health services grants made by PHS, financial administration, GAO review, 14160  
 insect outbreaks, 2291, 17797  
 low temperature reaction zones and alpine ultramafic rocks, 17817  
 mineral industry, minerals, yearbook chapter, 2565  
 national wildlife refuges of coast, 9518  
 precipitation data, hourly, 3401  
 public lands, use of income for schools, etc.—  
     hearing, 9323  
     law, 12177  
     reports, 10733, 12262  
 volcanic hazards of Mount Rainier, 9562  
 water supply outlook and snow surveys, 4051  
 western, labor requirements in thinning Douglas-fir and western hemlock, 4837  
 Washington Technical Institute:  
     establish—  
         law, 495  
         report, 693  
 Washita National Wildlife Refuge, general information, 17782  
 Washita River Basin project, Foss Reservoir repayment contract, amend, hearing, 15160  
 Wason, James R., Federal legislation to end strikes, documentary history, 10861  
 Wasps:  
     Tiphia, new species from West Indies, 14540  
     trap-nesting, life histories, etc., 8685  
 Wasson, James A., secondary recovery of oil by waterflooding Mitchell and Berea sands, Lower Newport field, Newport Township, Ohio, 14361  
 Waste disposal, *see* Radioactive waste disposal—Sewage—Waste products.  
 Waste products:  
     brines from desalination plants, utilization, feasibility study, 14196-197  
     cotton-ginning wastes, control and disposal, symposium, 7063  
     cotton mill waste, marketing and utilization, 9390  
     law regarding deposition of industrial waste solids into navigable waters, need for improving procedures to ensure compliance, Engineers Corps, Army, GAO report, 4868  
     municipal waste disposal, air pollution aspects of tepee burners used, 1572  
     pollution, treatment works, construction assistance, text, 6340  
     solid waste disposal—  
         laws, compilation, 4547  
         summaries of research and training grants, 10063  
     solid wastes program facts, 13095  
     waste waters, removing organic contaminants, use of coal and modified coals as adsorbents, 2588  
     watercraft, wastes from, report of Interior Dept. to Congress, 16349  
         print as Senate document, report, 15141  
     *see also* Radioactive substances—Refuse.  
 Watches, *see* Clocks and watches.  
 Water:  
     A-B-seas of desalting, 4912  
     acid mine water reverse osmosis test at Kittaning, Pa., 4915  
     ages of plutonium-beryllium neutrons in tungsten-water, media, 1502  
     algal growth aqueous factors other than nitrogen and phosphorous, selected biological references, 6338  
     are we running out of water? 6396  
     artesian, in Tertiary limestone in southeastern States, 6399  
     atmospheric water resources program, 5480

Water—Continued  
     behavior in various states, 15333  
     boundary waters, Colorado River, loan, agreement with Mexico, 2914  
     brackish, one mgd reverse osmosis plant, spiral module concept, parametric study, 9590  
     brackish water conversion demonstration plant—  
         Roswell, N. Mex., report, 16718  
         Webster, S. Dak., annual report, 15327  
     brackish well water reverse osmosis tests at Midland, Fort Stockton, and Kermit, Tex., 11217  
     chemistry of aluminum in natural water (series), 15313  
     civil defense aspects of waterworks operations, 4382  
     Colorado—  
         early season snow report, 5519  
         special snow report, 15750  
     Columbia River basin—  
         discharge at gaging stations, etc., 3907  
         storage in major power reservoirs, monthly report, 3907  
     column probe, ultrasonic, speeds up testing of welds, 5225  
     conservation—  
         abstracts of material published, 8806  
     conservation and full utilization, 11769  
     conservation around world, 14653  
     research in northeastern States, 38  
     continuity of water substance, cloud formation, etc., 13231  
     corrosion of aluminum, 17938  
     deep water isotopic current analyzers, 13228  
     desalination, 1st international symposium, proceedings, 9587, 11214-215  
     desalting and energy development, etc., policy considerations, 15969  
     determination of phenoxy acid herbicides by electron-capture and microcoulometric gas chromatography, 15312  
     differential energy and angle spectra for Cs-137 gamma rays, 13326  
     discharge measurement of streams by indirect method—  
         at width contractions, 14176  
         techniques, 11184  
     discharge measurements at dams by indirect method, techniques, 9576  
     droplets, improved method of determining spread factor for pesticide spray coverage, 10149  
     dynamics of water rejection from hydrogen-oxygen fuel cell to hydrogen stream, 18031  
     electric pumps on farm, 10176  
     electrolysis cell for orbital test, 2607  
     evaporation from soil, effect of sample size and environmental conditions, 10  
     excretion and renal hemodynamics during lower body negative, 14770  
     Federal grants for clean water, 11069  
     fluctuations in rate of discharge of Clear Lake Springs, Millard County, Utah, causes, 12618  
     fresh, productivity complexes, bases for compiling biological program, USSR study, 5008  
     geochemistry of water (series), 11186  
     ground water—  
         Air Force Academy site, Colo., 11179  
         American Falls Reservoir vicinity, 17832  
         artificial recharge (series), 1128, 16700  
         Big Sandy Creek Valley, Lincoln, Cheyenne, and Kiowa Counties, Colo., resources, 11191  
         Bloomington-Colton area, patterns of subsurface flow, 1118  
         Burnt River Valley area, Oreg., reconnaissance, 14182  
         chemical quality, 4893

## Water—Continued

ground water—continued  
 High Plains of Colorado, development, 4893  
 Jicarilla Apache Indian Reservation, resources of southern part and adjacent areas, 17829  
 Kern River alluvial-fan area, geology and hydrology, 1116  
 Laramie County, Wyo., resources, 8179  
 levels in United States, 1960-64, South-Central States, 16702  
 Lytle Creek-San Sevalie area, studies proposed, progress report, 1125  
 Mississippi Test Facility, Hancock County, Miss., development, 8183  
 Pascagoula River basin, Miss. and Ala., 11190  
 Piedmont and Blue Ridge provinces in southeastern States, 9566  
 Pinal County, Ariz., western, salinity, 1131  
 Portage County, Ohio, resources, 11172  
 Salar de Atacama, Antofagasta Province, Chile, resources, 11164  
 Savannah River and vicinity for atomic energy plant, 16705  
 Upper Santa Ana Valley, Calif., studies proposed, progress report, 1125  
 upper Sevier River basin, Utah, conditions, 14180  
 Ute Mountain Indian Reservation, Colo. and N. Mex., 6409  
 human water exchange in space suits and capsules, 12863  
 hydrologic cycle, 16535  
 increasing water yield from atmospheric sources through technology development plan, 5480  
 Indian Ocean, measurement of propagation velocity of elastic oscillations in surface layer, 36th cruise of USSR experimental ship Vityaz, 15353  
 intensity measurements of absorption bands, 1550  
 keep your drinking water safe, 5443  
 loans for development of water supply systems, etc., questions and answers, 4131  
 management, citizen's stake (remarks), 13219  
 masses and density stratification western North Atlantic Ocean, atlas, 11629  
 masses in Indian Ocean, variability, 11630  
 minerals yearbook chapter, 1417  
 Mississippi River Delta, monitoring agricultural pesticide residues, preliminary report of studies, 4086  
 municipal water supplies—  
   mineral content, economic effects, 14199  
   saline and conventional water sources in Texas, procedures and methods for calculating costs, 12645  
 natural, quantitative determination of tritium, 1130  
 Nevada, fall summary, 17205  
 new era for America's waters, 6342  
 occurrence of selected minor elements in waters of California, 11186  
 official Coast Guard recreational boating guide, 219, 4419  
 organic substances in water (series), 15312  
 Pacific Northwest—  
   annual peak discharge at selected gaging stations, 16680  
   current discharge at selected stations, 3907  
   month-end storage in major reservoirs, 3907  
   new reports by Geological Survey, 11170  
   water resources summary—  
     annual, 2362, 17822  
     monthly, 3670  
   water resources weekly runoff report, 3671  
 Park Range atmospheric water resources program, phase 1, 11774

## Water—Continued

Parkfield-Cholame, Calif., earthquakes of June-Aug. 1966, resources aspects, 9374  
 peak discharge measurement by slope-area method, techniques, 11185  
 performance of hubless pump inducer, 6860  
 pressures and accelerations encountered during landings of Apollo spacecraft, dynamic model investigation, 16970  
 quality, standards for interstate waters, guidelines for establishing, 6341  
 radiochemical analysis of water (series), 1130, 6410  
 radon containing, and their therapeutic uses, USSR study, 8241  
 requirements and uses—  
   Montana mineral industries, 2539  
   Wyoming mineral industries, 12796  
 requirements of—  
   iron and steel industry, 12617  
   normal adults residing at 4300 meters for 28 days, 14806  
   selected industries (series), 12617  
 research, selected summaries, 2273, 11070, 17766  
 residential use, study, 11206  
 resource development proposals, Interior Dept. to investigate feasibility, reports, 2015, 12362  
 resource projects under jurisdiction of Army Dept., change in name—  
   law, 12181  
   reports, 9297, 13630  
 resources—  
   Alaska, print additional copies, report, 13651  
   and their conservation in Hungary, 12705  
   California, 1126-27, 2124, 12616  
   conservation, code of Federal regulations, 11035  
   cooperative research and training, report, 6438  
   developed, protected, and geared for sustained use (remarks), 51  
   development proposals, Interior Dept. to investigate feasibility, report, 16240  
   French Prairie area, northern Willamette Valley, Oreg., 14179  
   Grand River basin, Mich.—  
     economic base study, 1024  
     study, information booklets, 7927-28  
   Ipswich River basin, Mass., 6411  
   Jackson and Independence Counties, Ark., 14181  
   Marquette Iron Range area, 14183  
   Michigan, southeastern river basins, study, information bulletin, 7929  
   Missouri, and development projects, 15055  
   print as Senate document, report, 9276  
 national problems and programs, comprehensive review—  
   hearings, 9162  
   reports, 4613, 12278, 13661  
   Pulaski and Salline Counties, Ark., 8181  
   research, 1968 Federal program, 11781  
   soil conservation, devoted to wise use of land and water resources (periodical), 3383  
   Swatara Creek basin of southeastern Pennsylvania, evaluation of hydrologic system, 16703  
   technical publications, 7102, 10073, 11774-776, 17181  
   Tennessee Valley, nature's constant gift, report, 2945  
 resources projects, Federal reimbursement policy, study—  
   departmental edition, 6209  
   document edition, 6057  
 resources research catalog, 6452  
 resources thesaurus, vocabulary for indexing and retrieving literature, 2398



Water—Continued  
 safety tips in, on, and around water, 15709  
 saline—  
     desalination by electrosorption and desorption, 6445  
     mass transfer properties, 2393  
     nuclear energy for desalting, bibliography, 12014  
 saline conversion—  
     appropriations, expand program, etc.—  
         hearing, 9322  
         law, 12172  
         reports, 10561, 10753  
     conceptual design of desalination plant, 2396, 8216, 15330  
     demineralization by environmentally modulated adsorption, 8212  
     demonstration plant, Freeport, Tex., annual report, 17848  
     engineering data book, supplement, 2397  
     foam fractionation, 12642  
     freezing, research, 9593  
     nucleation and growth of ice crystals, 6442  
     report, 11216  
     thermophysical properties of saline water systems, 12643  
     USSR, technical publications, translations, 13313  
     velocity and concentration profiles in reverse osmosis systems, 11218  
     waste heat used for production of fresh water, 6450  
 saline water research and development progress reports, 1140, 2393-96, 4915, 6440-51, 8211-16, 9588-94, 11217-218, 12641-645, 14196-200, 15326-333, 16718, 17848-849  
 science and saving water and soil, 15842  
 strategy for clean water (remarks), 16719  
 strontium-90 determination, 6410  
 supply—  
     Alaska, northwestern, Project Chariot, potential effects, 2369  
     Colorado River, watershed conditions affecting, 3922  
     western United States, fall, summary, 17266  
 supply and treatment, Army and Air Force installations, technical manual, 109  
 supply outlook—  
     Arizona, 4044  
     Colorado and New Mexico, 4045  
     Idaho, 4046  
     Montana, 4047, 18217  
     Nevada, 4048  
     Oregon, 4049  
     Utah, 4050  
     Washington State, 4051  
     western United States, including Columbia River drainage in Canada, 4052  
 surface water—  
     and related climate features, Shālī Sūsuh area, Tunisia, 11189  
     chemical quality, in Allegheny River basin, Pa. and N.Y., 8180  
     chemical quality reconnaissance, Neches River basin, Tex., 17830  
     chlorinated hydrocarbon pesticides, identification and measurement, 4800  
     controlling on level fields, 5642  
     hydrology of California coastal basins, between San Francisco Bay and Eel River, 15315  
     quality—  
         United States, 2375, 8184, 11192, 17834  
         western States, 1963, for irrigation, 8185  
     techniques of water-resources investigations, 9576, 11184-185, 14176  
     temperature data, correlation and analysis for Oregon streams, 8177  
     trace contaminants, analytical technique for characterizing, 15532  
     trace organic materials, methods for determination, 6451

Water—Continued  
 transmission of light through plane water surface and its return by submerged retroreflector, 13031  
 underwater sports in USSR, 6552  
 use in manufacturing, 1963 census of manufacturers, 4279  
 use in mineral industries, 1963 census of mineral industries, 5848  
 water and sewer facilities grant program, HUD consumer bulletin, 17838  
 water and wastewater facilities 1955-80, regional construction requirements, 17417  
 water for peace—  
     international conference, organize and hold in U.S., 1967—  
         law, 503  
         reports, 700, 2092  
     representative list of R & D reports available, 10439, 14872  
 water-resources reports, announcement, 3030  
 water resources review (periodical), 4043  
 water supply of Indian reservations (series), 6409, 17829  
 water supply papers, 1128-33, 2374-76, 4892-95, 6409-12, 8177-85, 11186-192, 12617-618, 14177-184, 15312-315, 16700-705, 17829-834  
 water-vapor electrolysis cell with phosphoric acid electrolyte, 12858  
 yield, increasing in Northeast by management of forested watersheds, 14186  
 see also Heavy water—Hydrogeology—  
 Ice—Sea water—also headings beginning water.  
 Water birds :  
     aerial surveys, 1961-66, factors influencing waterfowl counts, 15268  
     Federal baiting regulations, questions and answers, 15258  
     hunting, possession, transportation, importation, Federal regulations, 1080, 16623  
     Alaska, 14061  
     migratory waterfowl—  
         conservation—  
             hearing, 10665  
             report, 12265  
         regulations, 1967-68, hearing, 16336  
     pelagic distribution of seabirds in western Indian Ocean, 14534  
     seabirds—  
         numerical coding, 14536  
         tropical Atlantic Ocean, identification manual, 2752  
     status report, 6357  
 Water carriers :  
     class A and B, revenue and traffic, quarterly, 3831  
     mixing rule exemption, modernize certain restrictions upon application and scope—  
         hearings, 16399  
         report, 16374  
     operations, exemptions from certain provisions of shipping act, 1916—  
         hearings, 4552  
         law, 482  
     rate suspension, accounting at expiration, hearings, 16337  
     refunding portion of freight charges, hearings, 16337  
     transport statistics, 4929, 16729  
 Water-closet bowls, see Toilet bowls.  
 Water flooding, see Petroleum.  
 Water fowl, see Water birds.  
 Water heaters, liquid, classification definitions, 18122  
 Water-landing characteristics of 1/10-scale model of winged missile, 9872  
 Water measurements, manual pertaining to measurement of water for irrigation projects, 11776

- Water meters, use of records to estimate recreation visits and use on developed sites, 12579
- Water pollution:
- biological field investigative data for water pollution surveys, 1073
  - building for clean water, progress report, 8010
  - central and northern California, hearing, 15035
  - clean water for America, career opportunities, 8012
  - clean water plan, Greenspan grants, general information, 5672
  - clean water restoration act of 1966, pollution control and abatement in selected river basins—
    - law, 12156
    - text, 6340
  - Columbia Basin and Pacific Coast States, inventory of research, 15254
  - control—
    - directory, 17767
    - fresh and marine waters, selected biological references, 8011
    - Great Lakes-Illinois River basins project, Lake Ontario program, 9501
    - Great Lakes region, hearing, 738
    - Lake Michigan basin comprehensive plan—
      - Green Bay area, Mich. and Wis., 14050
      - Milwaukee area, Wis., 14051
    - Lake Ontario program, 9501
    - manpower and training needs, 17615
    - print as Senate document, report, 16362
    - program, 1967 review, hearings, 9168
    - research and training grants—
      - awards, 2274
      - publications and reports, 1965 index, 11071
    - control act, amend—
      - hearings, 16435
      - law, 12156
      - text, 6340
    - control and abatement—
      - message from the President, 5992
      - remarks, 5446
      - save America's small lakes, report, 14986
    - control of oil discharges in navigable waters, amend act, hearings, 16435
    - control program, 1967 review, hearings, print additional copies, report, 13656
    - creek and the city, urban pressure on natural stream, Rock Creek Park and Washington, D.C., 4913
    - danger of underestimating impurities in water, Rumanian study, 15371
    - environmental pollution, challenge to science and technology, report, 2057
    - Federal grants for clean water, 11069
    - fish kills, annual report, 17765
    - interstate and intrastate waters, of upper Mississippi River and its tributaries, Minn. and Wis., conference, proceedings, 14052, 15253
    - interstate waters—
      - Chattahoochee River and tributaries, conference, proceedings, 2271
      - Grand Calumet River, Little Calumet River, Calumet River, Wolf Lake, Lake Michigan and tributaries, progress evaluation meeting, 14053
      - Lake Tahoe and tributaries, conference proceedings, 9500
      - Lake Erie and its tributaries—
        - conference, proceedings, 16609
        - 3d meeting, proceedings, 6344
      - laws, compilation, 4547
      - navigable waters of Moriches Bay and eastern section of Great South Bay and their tributaries, conference proceedings, 6339
      - pollution control costs in mine drainage management, handbook, 12539
    - Water pollution—Continued
      - seas, by oil—
        - international control, report, 16234
        - international convention for prevention, amendments—
          - implementing, hearings, 745
          - text, 5542
        - south Lake Tahoe, Calif., hearings, 2056
        - strategy for clean water (remarks), 16719
        - waste waters, removing organic contaminants, use of coal and modified coals as adsorbents, 2588
        - wastes from watercraft, report of Interior Dept. to Congress, 16349
        - print as Senate document, report, 15141
        - what you can do about water pollution, 17768
      - Water Pollution Control Administration, Federal, see Federal Water Pollution Control Administration.
      - Water power, publications, price list, 8623
      - Water purification:
        - equipment, Federal item identification guides for supply cataloging, supplements, 3288
        - fly ash as coagulant aid in water treatment, 2573
        - rigging CW-BW water pretreatment decontamination set, airdrop, Army technical manual, 10280
      - Water Resources Council:
        - appropriations, 1967, law, 403
        - appropriations, 1968—
          - hearings, 12237, 16393
          - report, 13678
        - press releases, 3767
        - Task Force on Institutional Arrangements for River Basin Management, report, 17292
      - Water Resources Division:
        - California district, activities, 1106-9
        - reports for California, lists, 1126
      - Water Resources Research Office:
        - appropriations, 1968, hearings, 7734
        - programs, briefing session, hearings, 10655
      - Water supply, see Water.
      - Water systems:
        - financial assistance to small towns and rural groups in Oklahoma, questions and answers, 7945
        - water and wastewater utilities, capital expenditures, 1964 distribution, 4260
        - water treatment, selected biological references, 8011
      - Water vapor:
        - atmospheric, aloft over Great Lakes basin, total distribution, 16833
        - effect of optical radiations and water vapor on trapping spectrum of cadmium sulfide, 14455
        - observations at low, middle, and high latitudes, 5362
        - profile in Martian atmosphere, flyby measurement, 15569
      - Waterborne commerce, see Commerce.
      - Waterborne foreign trade, trade area by coastal district, 3356
      - Waterbury, Conn., area wage survey, 11325
      - Watercraft, see Boats—Ships.
      - Waterflooding, see Petroleum.
      - Waterfowl, see Water birds.
      - Waterfront operational facilities:
        - Navy design manual, changes, 2765
        - security, Federal regulations, 10448
      - Waterhouse, Robert, reevaluation of Rammsønde hardness equation, 1755
      - Waterline erosion control essential to stream-bank rehabilitation, 14099
      - Waterloo, Iowa:
        - area wage survey, 6608
        - population, special census, 8950
      - Watermelons:
        - for garden, 4118
        - heavier loading in rail cars and piggyback trailers, damage and cost reduction study, 10154

Waterproofers, safe work guide, 11306  
 Waters, Roy F., extraction of germanium and gallium from coal fly ash and phosphorus furnace fine dust, 9789  
 Watersheds:  
     central Colorado, high mountain, sediment yields, 2332  
     flood prevention, 11 authorized, 14650  
     forested, increasing water yield in North-east by management, 14136  
     loans available from Farmers Home Administration, questions and answers, 4129  
     planning, SCS national engineering hand-book, 10087  
     projects, miscellaneous, bearings, 711, 12427  
     small tree-covered and fern-covered and burned in Hawaii, rainfall and stream-flow, 8115  
     the watershed, a new look at war on poverty, 10915  
     *see also* names of rivers, etc.  
 Waterways Experiment Station:  
     miscellaneous papers, 4742, 15229, 17736  
     publications—  
         available for purchase, 13981  
         list, 13978  
     technical reports, 1030, 2220-21, 4743-45, 6210-16, 7930-34, 9424, 10960-962, 13985-988, 16526-529, 17737  
 Watkins, Phillip L.:  
     digital magnetic tape system for recording radar data, 17096  
     Randle Cliff radar digital range-measurement instrument, 18114  
 Watson, Bruce G., soil survey of Lafayette County, Wis., 1610  
 Watson, Charles W., jr., relief, 13590  
 Watson, George E., seabirds of tropical Atlantic Ocean, 2752  
 Watson, Gordon K., effect of ductile cladding on bend transition temperature of wrought tungsten, 17008  
 Watson, Velvin R., numerical calculations for characteristics of gas flowing axially through constricted arc, 12955  
 Watt, Lois B.:  
     education of disadvantaged children, bibliography, 4709  
     Educational Materials Center, 4710  
     family life and sex education, bibliography, 6184  
 Waubay National Wildlife Refuge, birds, list, 15263  
 Waugh, Frederick V.:  
     agricultural policy, review of programs and needs, 17124  
     graphic analysis, applications in agricultural economics, 4099  
 Wave functions:  
     spheroidal—  
         oblate radial functions of 1st and 2d type, tables, 10002, 17087  
         prolate radial functions of 1st and 2d type, tables, 10010  
 Wave generators, multiphase supplies from signal conversion of direct current, 17979  
 Waveguides:  
     asymmetric waves in circular waveguide with open end, general theory, 11566  
     diode-iris controlled waveguide slot radiators, feasibility study, 9812  
     earth-ionosphere waveguide channel, propagation of long and superlong radio waves, USSR excerpt, 17873  
     optical, and components, development, 15508  
     parallel-plate, aperture reflection coefficient by wedge diffraction analysis, 14382  
     rectangular, dielectric covers, effects over cross slots, 18027  
 Wavelengths:  
     X-ray, 17036

Wavelengths—Continued  
     X-ray source uses interchangeable target anodes, 14424  
     *see also* Spectra.  
 Waves:  
     asymmetric, in circular waveguide with open end, general theory, 11566  
     correlation of littoral transport with wave energy along shores of New York and New Jersey, 7925, 10954  
     inversion, effect upon sonic-boom propagation, 9427  
     longshore current data, compilation, 10952  
     magnitude of nonlinearities in collisionless magnetoplasma, 5253  
     neutron wave propagation techniques, symposium, proceedings, 12003  
     ocean—  
         instrumentation of nearshore environment, by multipurpose data acquisition system, 16522  
         origin and dynamics, USSR study, 12674  
     propagation—  
         finite amplitude in thermoviscous media, 1434  
         millimeter and submillimeter, 15511  
     rock movement in large-scale tests of riprap stability under wave action, 16250  
     seismic sea wave warning system, wave reporting procedures for tide observers, 4412  
     stress and wave patterns in soils subjected to dynamic loads, 10255  
     wave-powered device for moving sand, feasibility study, 13975  
     wave record program at CERC, 10951  
     *see also*—Electric waves—Pressure waves—Radio waves—Shock waves—Sound—Sound waves.  
 Waxes, Federal item identification guides for supply cataloging, supplements, 3290  
 Ways and Means Committee, House:  
     calendar, 3486  
     committee priors, 2115, 4565, 6046, 6048, 15053, 16346  
     digest of testimony, etc., on interest equalization tax extension act, 9176  
     funds, report, 7726  
     hearings, 6047, 6049, 7763-64, 10684-685, 17614  
     legislative history—  
         H.R. 6950, restoration of investment credit and allowance of accelerated depreciation in case of certain real property, 13719  
         H.R. 8363, revenue act of 1964, 756  
         H.R. 10650, revenue act of 1962, 4564, 7760  
         H.R. 11256, tax lien act, 757  
         H.R. 11970, 87th Congress, trade expansion act of 1962, Public law 794, 7761  
         H.R. 13103, 89th Congress, foreign investors tax act of 1966, 7762  
         H.R. 17607, suspension of investment credit and allowance of accelerated depreciation in case of certain real property, 2064  
         P.L. 90-3 and P.L. 90-39, public debt ceiling, 15051  
         P.L. 90-59 and P.L. 89-243, interest equalization tax extension acts, 15052  
     reports, 617-618, 659, 2022-24, 2027-28, 6003, 7647-53, 7670, 7685, 7690, 7692-94, 7696-99, 7713, 7730, 9088-92, 9099-9100, 10621, 12273, 14953, 16264  
 WB/BC series, 16539  
 Wealth, personal wealth, 1962 income statistics, 15336  
 Weapons:  
     chart system simplifies identification of complex design assemblies, 1458  
     effects, thermal radiation, produces chorioretinal lesions, study, 10231  
     Federal item identification guides for supply cataloging, supplements, 3293

# INDEX 1967

## Weapons—Continued

- individual, ROTC manual, 1766
- nuclear—
  - AEC authorizing legislation, 1968, hearings, 10491
  - Chinese Communist progress, impact on U.S. national security, report, 13542
  - development in U.S. and Soviet Union, digest, 7746
  - effects—
    - programmed orientation to civil defense, 13429
    - self-teaching materials, 13427
    - non-proliferation treaty, why? 15926
  - systems—
    - Project Hindsight, 1st interim report, summary, 7857
    - rigging M28 and M29, Army technical manual, change, 15952
- Weapons carriers, ½ ton, rigging for air-drop, Army technical manual, 10281
- Wear, John F.:
  - aerial photographic techniques for estimating damage by insects in western forests, 14078
  - sampling tree tops by helicopter, special pole pruner cuts branchlets, 11123
- Wear, see Friction.
- Weather:
  - aviation weather procedures handbook, changes, 4188, 16548
  - control, and the hand of man, 13993
  - daily weather and river bulletin—
    - Albuquerque, N. Mex., area, 3184
    - Houston, Tex., area, 3185
    - New Orleans, La., area, 3186
  - effect on sound transmission from explosive shots, 9773
  - engineering data for heating and air conditioning design, etc., Army, Navy, and Air Force manual, 11947
  - ESSA operational satellite system, 1033
  - Government employees absent because of dangerous conditions, to be excused without loss of pay, amend U.S. Code, hearing, 9329
  - Luquillo Mountains, P.R., 1958-62 records, 14130
  - maps—
    - daily weather map, 3187
    - synoptic, Northern Hemisphere, 3181
    - mariners weather log (periodical), 3541
  - naval weather service computer products manual, 15618
  - radio aids—
    - Atlantic and Mediterranean area, 1540, 9975, 14581
    - Pacific and Indian Oceans area, 2772, 8573, 11648, 17076
  - review, monthly, 3583
  - service A schedules, ATS handbook, changes, 5717, 11971
  - service C schedules, 1746
  - changes, 11972, 16561
  - service for merchant shipping, 7230
  - service O international schedule, ATS handbook, 1745
  - change, 13275
  - severe conditions, administrative leave for Federal employees, hearing, 748
  - severe weather flying, physiological responses of pilots, 5804
  - weather and crop bulletin (periodical), 4060
  - weather radar manual—
    - fundamentals and applications, 17294
    - national network, observing and reporting procedures, 17293
  - world records, 1951-60, Asia, 9435
  - see also Meteorology.
- Weather Bureau:
  - circular, 5592
  - ESSA technical memorandum, WBTM TDL series, 9428-29, 12479
  - ESSA technical report, WR series, 10968
  - operations, semiannual report, 14722
  - technical note, 2972

## Weather Bureau—Continued

- WBAN manual of surface observations, 5592
- Weather control:
  - modification—
    - annual report, 13013
    - progress, hearing, 9321
    - recommended national program, 9450
    - Soviet Union, 1944-66, bibliography, 17903
- Weather forecasts:
  - Air Force weather forecaster proficiency, test correlates, 8863
  - average monthly weather outlook (periodical), 3051
  - coastal warning facilities charts—
    - Canadian border to Eureka, Calif. and Alaska, 14717
    - Cape Hatteras, N.C. to Brunswick, Ga., 14718
    - eastern Florida, 8790
    - Eastport, Maine to Montank Point, N.Y., 14719
    - Eureka to Point Conception, Calif., 11901
    - Hawaiian Islands, 11902
    - Manasquan, N.J. to Cape Hatteras, N.C., Chesapeake Bay, 14720
    - Montauk Point, N.Y. to Manasquan, N.J., 14721
    - Morgan City, La. to Brownsville, Tex., 11903
    - Point Conception, Calif. to Mexican border, 11904
    - Puerto Rico and Virgin Islands, 11905
  - fog forecasting, use of atmospheric-electricity recordings, 8590
  - human processing of information, investigation, 8862
  - numerical methods, USSR study, 1184
  - objective numerical prediction out to 6 days using primitive equation model, test case, 12479
  - severe-storm forecasting procedures of Military Weather Warning Center, analysis, notes, 17339
  - small craft, gale and whole gale warning facilities charts, 14723-724
  - United States precipitation, long-range forecast, supplement, 11791
  - weather radars & remote displays, Federal plan, 15232
- Weather modification, see Weather control.
- Weather Records Center, National, see National Weather Records Center.
- Weather satellites, see Satellites.
- Weather Service, National Agricultural, see National Agricultural Weather Service.
- Weather Service, National Fire, see National Fire-Weather Service.
- Weather stations:
  - cooperative meteorological program—
    - Cayman Islands, continuation, agreement with Great Britain, 7192
    - continuation, agreement with Dominican Republic, 8731
  - decadal census, Texas, 6228
  - index, 17077
  - North Atlantic Ocean Station Charlie, 10444
- Weathering, concrete and concreting materials, performance, investigation, 6214
- Weathering layoffs in a small community, case studies, etc., 1360
- Weaver, George L-P, remarks, Mar. 10, 1967, 8283
- Weaver, Robert C.:
  - addresses, etc.—
    - Apr. 9, 1967, 9581
    - May 8, 1967, 11196
    - June 4, 1967, 11197
  - bibliography of published works, 11195
- Weaving, automating wool looms, 1186
- Weaving mills, textile industry, weaving, how to inspect chart, 9691

- Web belt load measuring instrument has excellent stability, 14436
- Webb, James E.:  
addresses—  
May 23, 1967, 17022  
May 27, 1967, 18059
- Webb, Paul:  
bio-thermal responses to varied work programs in men kept thermally neutral by water-cooled clothing, 8423  
human water exchange in space suits and capsules, 12863
- Webbert, M. Virginia, basic data on economy of Thailand, 229
- Webbing, general repair, Army technical manual, 14801
- Weber, Dean, United States censuses of population and housing, quality control of field enumeration, 17443
- Weber Basin project, Willard Dam, technical record of design and construction, 8671
- Weber Delta, geology and hydrology of district, 6400
- Webster, S. Dak., brackish water conversion demonstration plant, annual report, 15327
- Wechsler, Alfred E., thermal conductivity probes for soils and insulations, 4201
- Wedel, Frances von, *see* Von Wedel, Frances.
- Wedges, measures parallax separations on large-scale 70 mm. aerial photographs, 16659
- Weedfall, Robert O., climatological aspects of air pollution in West Virginia, 6219
- Weeds:  
chemical control in 2-year old walnut planting, 14098  
control, suggested guide, 13213  
killing with herbicides, student or classroom science project, 4137  
lawn, control with herbicides, 15854  
noxious seed chart, 2138-39  
range, chemical control, handbook, 4102
- Weekly:  
NOTE.—For all publications which begin with the word "Weekly", *see* subject, or name of department, etc., issuing publication.
- Weeks, George E., buckling of pressurized toroidal ring under uniform external loading, 15570
- Weeks, W. F., understanding variations of physical properties of sea ice, 15931
- Weeks, *see* names of special weeks.
- Weertman, J.:  
effect of basal water layer on dimensions of ice sheets, 4196  
sliding on non-temperate glaciers, 7379
- Weevils:  
boll weevils, cotton squares, efficiency of fall-type machine in destroying, 7242  
pales weevil—  
description, control, etc., 4821  
technique for rearing, 9538  
white pine, life history, control, etc., 17794
- Wegbreit, J., clutches and power-stop control, classification definitions, 18132
- Wegweiser für Amerika-reisende, 18114
- Wehrnd, William R., jr., minimum energy reaction wheel control for satellite scanning small celestial area, 9899
- Weilberg, James A., parachutes designed for controllable gliding flight, 11512
- Weight, adult men, body volume, 14780
- Weightlessness:  
astronaut capabilities to perform extravehicular functions in weightless conditions, 15507  
dynamics of 2-phase liquid-gas weightless medium with aid of surface effects, control, 11562  
effect on otoliths, temperature control of orbital otolith experiment, 12868  
liquid outflow from cylindrical tanks, experimental investigation, 2720
- Weightlessness—Continued  
liquid surface motion in response to lateral acceleration during weightlessness, 12966  
liquids, frequency and viscous damping, experimental investigation, 15571  
outflow termination, interfacial behavior, 8501  
role of vestibular organs in exploration of space, 5191  
sodium and water excretion and renal hemodynamics during lower body negative, 14770
- Weights and measures:  
commercial, specifications, tolerances, and other technical requirements, replacement pages, 6914  
standardization on national and international level important for all (address), 12126  
units, definitions and tables of equivalents, 9941  
*see also* Metric system.
- Weights and Measures, National Conference on, *see* National Conference on Weights and Measures.
- Weihaupt, John G., oceanography, study, guide, 12438
- Well, Margaret L., *see* Loh, Che Yim.
- Well stain, *see* Stain and staining (microscopy).
- Weimar Museum, paintings to be transferred in trust for, agreement, 7190
- Weinbrecht, Ruby Y., marketing information guide, annotated bibliography, 3544
- Weinstein, Leonard M., hypersonic performance of several basic and modified diamond-cross-section delta-wing configurations, 9884
- Weinstein, Sidney:  
adaptation to visual and nonvisual arrangement, 5167  
effects of sensory deprivation on sensory, perceptual, motor, cognitive, and physiological functions, 8419
- Weinstock, Herbert, limitations on inertial sensor testing produced by test platform vibrations, 1492
- Weintraub, Murray:  
design of gas-motivated solids dispersion devices, 6687  
incineration in cylindrical combustion chamber, 9763
- Weir, D. H., model of human operator response to step transitions in controlled element dynamics, 5172
- Weiss, Milton L., projectile impact initiation of condensed explosives, 14343
- Weissbart, J., electrolytic dissociation of CO<sub>2</sub>-H<sub>2</sub>O using solid oxide electrolyte, 6715
- Weitzell, E. C., zoning, aid to community resource development, 17326
- Weltzman, Donald O., longitudinal study of acuity and phoria among submariners, 12791
- Weltzman, Stanley H., South American characid fishes of subtribe Nannostomina, 8537
- Welch, Richard L., five-year trend in price of pulpwood in Southeast, 15286
- Welcome aboard, USC&GSS McArthur, CSS 30, 10970
- Welcome to Washington, 13010
- Weld, Betsy A., reports and maps of Geological Survey released only in open files, 9563, 15307
- Welded joints, *see* Joints.
- Welder shields, *see* Shields.
- Welders:  
helmets, hand held shields, and helmet lenses, military standard, 9372  
power arc welder touch-started with consumable electrode, 6803  
standard arc, provide high amperage direct current source, 1448



**Welding:**

- aluminum fusion welds, continuous internal channels produced, 12909
- aluminum welds improved by bead removal, 8457
- AM 350 and AM 355 steels, 15552
- composite weld rod corrects individual filler weaknesses, 9862
- corrosion-resistant steel, controlled ferrite content improves weldability, 8475
- cross-wire welds, quality control criteria for acceptance testing, 5227
- electron beam welder X-rays its own welds, 14423
- embedment and other metallurgical and mechanical characteristics of cross-wire resistance welds, 2698
- equipment industry in Japan, 12031
- explosive, study to establish parameters and limitations, 17999
- fusion welding, workmanship standards, 14365
- graphite materials, USSR study, 15395
- Inastelloy-X, weld procedure produces quality welds for thick sections, 14364
- heat input rates effects on T-1 and T-1A steel welds, 12894
- machinery, etc., for ships of Navy, military standard, 2154
- operations, monitored by closed circuit TV system, 12893
- opposed arcs permit deep weld penetration with only 1 pass, 2644
- pipe welds, fixture facilitates helium leak testing, 12904
- portable machine head automatically controls arc, 15542
- portable spectrometer monitors inert gas shield in welding process, 16960
- position effect on porosity formation in aluminum alloy welds, 12903
- refractory metals by vapor deposition, 14432
- system maintains constant penetration during fusion process, 11443
- titanium alloys, salt water stress-corrosion cracking characteristics, 17091
- ultrasonic water column probe speeds up testing of welds, 5225
- welded steel penstocks, design, construction, etc., 17178
- Welding torches, *see* Blowtorches.
- Weldments, *see* Welding.
- Welfare, *see* Public assistance—Social work and problems.
- Welfare Administration:
  - practices in providing nursing home care, etc., for—
  - old-age assistance recipients in Cleveland, Ohio, area, GAO report, 8150
  - welfare recipients in California, GAO report, 2354
  - pricing methods used by various States in purchase of drugs under federally aided public assistance programs, GAO review, 9556
  - programs and services, facts, 7234
  - recovery of excess funds accumulated under insurance contract for medical care, GAO review, 8145
  - work registration under Federal-State aid to dependent children of unemployed parents in Ohio, GAO review, 11157
- Welfare funds:
  - Alabama, proposed cutoff, hearings, 6096
  - welfare and pension plans disclosure act—administration, 1966, report of Secretary of Labor, 12764
  - amend with respect to filing of copies and making affidavits, hearing, 4531
  - questions and answers, 14278
  - reporting and bonding provisions, administration and enforcement, Labor-Management Services Administration, Labor Dept., GAO review, 8141

- Welfare in review (periodical), 4061
- 1966 statistical supplement, 5596
- Welfare work, *see* Public assistance—Social work and problems.
- Welland Canal, lockage fees, agreement with Canada, 11872
- Wellner, Charles A., spiral grain, cause of pole twisting, 14129
- Wells, C. Sinclair, Jr., injection of drag-reducing fluid into turbulent pipe flow of Newtonian fluid, 14398
- Wells, Jean A.:
  - college women seven years after graduation, 7235
  - continuing education programs for women, 5607
- Wells, John D., geology of Eldorado Springs quadrangle, Boulder and Jefferson Counties, Colo., 11165
- Wells, Paul I., automatic system for analysis of time variant data, 4748
- Wells:
  - aquifer properties and well design for artificial-recharge site, 1128
  - brackish water reverse osmosis tests at Midland, Fort Stockton, and Kermit, Tex., 11217
  - classification definitions, 13045
  - Madera area, San Joaquin Valley, Calif., 12605
- Welsh, Edward C., address, May 5, 1966, 1516
- Welsh, Harold, Navy civil engineer, 3613
- Wen Shi Yu, *see* Yu Wen Shi.
- Wenger, Norman C., resonant frequencies of dielectric sphere immersed in collisional plasma, 12929
- Wengert, E. M., parameters for predicting maximum surface temperatures of wood in exterior exposures, 1096
- Wentz, William H., Jr., delta and double-delta wing flow fields at low speeds, 6724
- Wenzel, Guss E.:
  - amplifier drift tester, 8503
  - development of microminiature dc signal-conditioning amplifier, 14483
- Wert, Steven L., wedge measures parallax separations on large-scale 70 mm. aerial photographs, 16659
- Wesoky, Howard L., boundary-layer measurements in accelerated flows near Mach 1, 8497
- West, A. W., report on pollution in Lake Tahoe basin, Calif.-Nev., 9500
- West, Francis J., Jr., small unit action in Vietnam, 8332
- West, Hugh L., wage chronology, Firestone Tire and Rubber Co. and B. F. Goodrich Co., Akron plants, 8301
- West, J. M.:
  - mineral industry of—
  - Burma, 2550
  - Indonesia, 6652
  - Malaysia and Singapore, 6658
  - North Korea, 1402
  - Philippines, 2562
  - Thailand, 8368
  - regional mineral industry review of Far East, 11367
- West, James A.:
  - mineral industry of—
  - Afghanistan, 6642
  - India, 8352
  - Kuwait, 2556, 8356
  - Kuwait-Saudi Arabia Neutral Zone, 5112
  - Lebanon, 5113
  - regional mineral industry review of—
  - Near East, 6672
  - South Asia, 8373
- West, Quentin M., paper, Feb. 16, 1966, 16496
- West (U.S.):
  - beet leafhopper, life history, host plants, etc., 5686
  - Far West, engineering and economic aspects of cotton gin operations, 12542



West (U.S.)—Continued

- Federal exploration before 1880, exhibit of maps, surveys, etc., 8516
- forests, aerial techniques for estimating damage by insects, 14078
- fresh fruit and vegetable unloads in western cities by commodities, States, etc., 7831
- irrigation, 1963, quality of surface water, 8185
- Negro social and economic conditions, 15453
- phosphate industry and its resources, evaluation, 11370-371
- progress in range research in 17 western States, 6136
- resource conservation and development project areas, baling wood shavings and sacking sawdust, economic potentials, 10920
- skiing trends and opportunities in western States, 11133
- trans-Mississippi West, historic places associated with mining, ranching, and farming frontiers, 13008
- Twin Creek limestone (Jurassic) in western interior, 8168
- water supply—
  - fall summary, 17206
  - outlook and snow surveys, 4052
- western range and livestock monthly report, 4062
- western rivers, rules of the road, 4421
- wireworms on irrigated lands, control, etc., 10170
- zinc deficiency of field and vegetable crops, 5640
- West Fork River :
  - and tributaries, W. Va., engineer report—departmental edition, 2222
  - document edition, 2069
- West Germany, *see* Germany.
- West Indies :
  - climatological data, 3096
  - lights and fog signals, lists, 5331, 9972, 14578
  - mahogany trees, killing unwanted trees by peeling and frilling, 12573
  - sailing directions, changes, 14572, 17069
- West Virginia :
  - air pollution, climatological aspects, 6219
  - area measurement report, 10338
  - census of agriculture, 1964, State and county statistics, 8962
  - census of mineral industries, 1963, area statistics, 7464
  - climatological data, 3096
  - county business patterns, 4321, 12064
  - electric rate book, 1057
  - mineral industry, minerals yearbook chapter, 6670
  - postal map, 5401
  - precipitation data, hourly, 3401
- Wester, Robert E., suburban and farm vegetable gardens, 8831
- Western Europe, *see* Europe.
- Western Hemisphere, *see* Hemisphere, Western.
- Western hemlock, *see* Hemlock.
- Western larch, *see* Larch.
- Western pine beetles, *see* Beetles.
- Western region, *see* West (U.S.).
- Western States, *see* West (U.S.).
- Western Union Telegraph Co., wage chronology, 14299
- Western Utilization Research and Development Division, publications and patents, semiannual lists, 16, 11925
- Western white pine, *see* Pine.
- Westfall, Benton B., 2d decennial review, conference on cell tissue and organ culture, 18172
- Westmark, David O., regional lactic acid concentration in dogs under acute hypoxia, 1739
- Westport, Conn., behavior of beach fill and borrow area at Sherwood Island State Park, 13976
- Weston, Kenneth C. :
  - nitrogen injection into boundary layer on graphite surface in high-temperature dissociated airflow, 12964
  - stagnation-point boundary layer with suction and injection in equilibrium dissociating air, 8499
- Wetlands, *see* Swamplands.
- Whalen, Mark A., nomination, hearings, 6094
- Whaley, Bob L., fall water supply summary for Nevada, 17205
- Whaling, international convention, schedule, amendments, 7161
- Wharton, Walter J., Extension Service review, 3255
- What are public lands? 8327
- What kind of a people are we? 18245
- What makes food prices? 2173
- What will happen to our inland seas? 8244
- What you can do about water pollution, 17768
- Whatever happened to the individual? (address), 10319
- Wheat :
  - Canadian, marketing, 4816
  - certificates—
    - advance payments to producers, hearing, 17588
    - statutes, compilation, 7262
  - cracked bulgur, good choice for thrifty family, food value, use, recipes, 9341
  - export program conducted by Commodity Credit Corp., GAO review, 14159
  - farm stored, how to control insects, 4112
  - fumigating with methyl bromide, methods, 15861
  - futures—
    - commitments of traders, 3112
    - trading and open contracts, 3368
  - inert dusts as protectants against insects in bins, evaluation, 8835
  - international agreement, extension, protocol, 17246
  - marketing allocation program, need to further revise regulations to minimize loss of proceeds to Government, GAO report, 1100
  - pasture, 4063
  - production, moisture conservation in upper Snake River dryfarming area, 4088, 11723
  - program 1966, statistical summary, 8818
  - rolled, good choice for thrifty family, recipes, 9343
  - utilization research, 4th national conference, 6
  - wheat situation, 4064
  - winter, crop production, 2938
- Wheat flour, *see* Flour.
- Wheeler, Earle G., testimony, hearing, 16394
- Wheeler, Kermitt E., legal status of women in Maryland, 1667
- Wheeler, P. C., evaluation of semi-active gravity gradient system, 2597-98
- Wheels, lateral ring metal elastic, absorbs shock loading, 6821
- Whelan, Joseph G., world Communist movement, selective chronology, 12206
- Where and how to get a farm, some questions and answers, 17321
- Where do we go from here (address), 7918
- Where do you go when the go-go's gone? 8797
- Whiskers, boron carbide, straight growth produced in radial furnace, 9836
- Whiskeytown Lake, unit of Whiskeytown-Shasta-Trinity National Recreation Area, general information, 11619
- Whitcomb, Warren, jr., controlling greater wax moth, pest of honeycombs, 10169
- White, A. M., fabrication process for zircoloy-aluminum composite pressure tubing, 8907

# INDEX 1967

- White, Emily T., statistical reporter, 3900  
 White, Ernest J., United States Air Force JAG law review, 3453  
 White, George A., culture of crambe, new industrial oilseed crop, 4140  
 White, Hosea D., jr., evolution of satellite IFM encoding systems, 5241  
 White, John H., James Millholland and early railroad engineering, 11602  
 White, Maurice D., piloted simulation study of operational aspects of staff pitch-up, 12967  
 White, Richard A., relief, 12230  
 White, Robert M., address, Jan. 31, 1967, 7937  
 White Canyon mining district, uranium deposits, 6391  
 White-collar pay supplements, 6620  
 White-collar workers, *see* Government officials and employees.  
 White County, Nev., Ely mining district, distribution of gold, silver, tellurium, and mercury, 9564  
 White fir, *see* Fir.  
 White grubs, *see* June bugs.  
 White House china of Lincoln Administration, 15600  
 White Mountain, Alaska, mercury deposits, investigations, 6677  
 White pine, *see* Pine.  
 White-pine weevils, *see* Weevils.  
 White rats, *see* Rats.  
 White Sands National Monument, general information, 6986  
 White winged doves, *see* Pigeons.  
 Whitesell, Craig D., queensland maple seedlings in Hawaii, growth accelerated after first year, 8090  
 Whiting, Wilhelmina F.:  
   bituminous coal and lignite mining, 167  
   coal mining, 166  
   metal mining, 8934  
 Whitlow, Jesse W., geology of Potosi quadrangle, Great County, Wis., and Dubuque County, Iowa, 6388  
 Whitman, Robert A., iron and steel, 2544  
 Whitmore, John, Naval Ship Systems Command technical news, 3609  
 Whitney, Linwood F., jr., cloud measurements using aircraft time-lapse photography, 10967  
 Whitney, Warren J., overall stator performance and turbine design, cold air investigation of turbine for high-temperature engine application, 5236  
 Whitney, Wayne T., helium-neon laser discharge parameter study, 17086  
 Whittaker, James C., costs and returns for hardwood lumber production in Appalachian region of Kentucky and Ohio, 4850  
 Whittemore, W. L., differential neutron thermalization, 13323  
 Whittick, J. S., analytical chemistry instrumentation, 16933  
 Whittan, Rex M., remarks, Nov. 29, 1966, 2844  
 Who will open this child's eyes, 15208  
 Wholesale prices, *see* Prices.  
 Wholesale trade:  
   Azerbaijdzhan SSR, wholesale networks, problems, 1171  
   census of business 1963, subject reports, bound volume, 7459  
   primary market price index, monthly report, 4067  
   sales and inventories, monthly report, 3584  
   supplement, 5888  
   *see also* names of commodities and industries.  
 Whooping cranes, *see* Cranes (birds).  
 Why not be an engineer? 11913  
 Why we fight in Viet-Nam, 11824  
 Why women work, 13189  
 Whyte, William, USDA employee newsletter, 4012  
 Wichita, Kans., area wage survey, 5064  
 Wichita Mountains Wildlife Refuge, general information, 9516, 14060  
 Wiebmann, AIC 75 B, lunar chart, 7327  
 Wicker, Ed F., seed collection and storage for *Arceuthobium* spp., 9541  
 Wicking materials, transport properties and boiling characteristics, vapor-chamber fin studies, 14379  
 Wideman, F. L., technologic trends in mineral industries (metals and nonmetals except fuels), 5136  
 Widows and widowers, widows with children under social security, survey, 2869  
   *see also* Pensions.  
 Wiedner, Samuel, radiological health data and reports, 3805  
 Wier, Kenneth L., geology of Kelso Junction quadrangle, Iron County, Mich., 6392  
 Wilner coefficients, *see* Coefficients.  
 Wilnala, S. W., water resources of Marquette Iron Range area, Mich., 14183  
 Wilcox, Ansley, House, *see* Ansley Wilcox House.  
 Wild animals, *see* Animals.  
 Wild Bill range, *see* Coconino National Forest.  
 Wild Rice River and Valley:  
   south branch, and Felton ditch, channel improvement, engineer report—  
     departmental edition, 9422  
     document edition, 9071  
 Wilder, Charles S.:  
   acute conditions, incidence and associated disability, United States, 14637  
   cost and acquisition of prescribed and nonprescribed medicines, U.S., 5467  
   health characteristics by geographic region, etc., 10068  
 Wilderness areas:  
   Desolation primitive area, Sierra Nevada, Calif., mineral resources, 11169  
   Devil Canyon-Bear Canyon primitive area, Calif., mineral resources, 8155  
   High Uintas primitive area, Utah, mineral resources, 12598  
   importance (address), 10158  
   national forests, 8838  
   national system, annual report, 7607  
   Pine Mountain primitive area, Ariz., mineral resources, 11166  
   San Geronimo Wilderness Area, family winter recreational use, hearings, 2050  
   studies related to wilderness (series), 8155-56, 11166, 12598  
   studies related to wilderness-primitive areas (series), 11169, 12604  
   studies related to wilderness-wildlife refuges (series), 17821  
 Wilderness, Battle of the, 1864, where hundred thousand fell, 1533  
 Wildlife:  
   code of Federal regulations, 9486  
   conservation—  
     career preparation, 6352  
     estuarine areas, preserve, etc.—  
       hearings, 4635, 9164  
       report, 695  
     protection, and propagation of endangered native species, law, 388  
   fish and wildlife programs, 6348  
   Greenspan grants to provide more space, general information, 5672  
   man and wildlife, animal damage control policy, for Sport Fisheries and Wildlife Bureau, 11078  
   monolayers for evaporation control of water, effect on wildlife, 7102  
   publications, price list, 18149  
   rare and endangered, U.S., list, 2281  
   special scientific reports, wildlife series, 4809-10, 6357, 12550, 14067-68, 15268, 16633-635  
   water resource projects, cost sharing grants, report, 16368  
   wildlife leaflets, 11091, 16637, 17788

- Wildlife—Continued  
wildlife review, abstracting service, 1068  
*see also* Animals.
- Wildlife refuges:  
managers, address list, 4805  
national—  
general information, 4808, 17785  
list, 6355  
northeast, region 5, 1078  
surplus animal disposal, 16622  
Washington Coast, general information, 9518  
National Wildlife Refuge System, administration, law, 388  
refuge leaflets, 1078-79, 2277-79, 4803-6, 6353-55, 8027-32, 9516-19, 11079-89, 12547, 14060, 15259-265, 16622, 17773-782  
studies related to wilderness-wildlife refuges (series), 17821  
*see also* names of refuges.
- Wiley, Llewellyn N.:  
describing airman performance in administrative career ladder by identifying patterns of trait ratings, 11952  
job types of communications officers, 15892
- Wilford, Enid L., architecture, building engineering, 13266
- Wilhite, Lawrence P., summer planting of slash pine shows promise in Florida, 8118
- Wilkinson, Thomas L., moisture cycling of trussed rafter joints, 8101
- Willamette River and Valley, French Prairie area, geology and water resources, 14179
- Willard Dam, technical record of design and construction, 8671
- Willford, Wayne A., investigation in fish control, 16624
- William Langer Jewel Bearing Plant:  
designate—  
law, 488  
report, 2091
- Williams, Carroll B., Jr.:  
characteristics of forest floors and soils under true fir-hemlock stands in Cascade Range, 11139  
differential effects of 1944-56 spruce budworm outbreak in eastern Oregon, 1097  
possible grouse damage on true firs, 1090  
snow damage to coniferous seedlings and saplings, 1091
- Williams, Ellis T., timber owner and his Federal income tax, 10161
- Williams, Frank E.:  
fluorspar deposits of New Mexico, 2540  
urbanization and mineral aggregate industry, Tucson, Ariz. area, 5105
- Williams, Frederick W., prediction of absolute entropies from gas chromatographic retention data, 18111
- Williams, Garnett P., flume experiments on transport of coarse sand, 16695
- Williams, Grover S., digest of public general bills and selected resolutions, 3206
- Williams, Jack C., soil survey, Gray County, Tex., 8697
- Williams, James D.:  
effects of air pollution, 5441  
metropolitan planning program relationships to air resource management, 13084  
opinion surveys and air quality statistical relationships, 5442  
paper, Apr. 26, 1967, 11716
- Williams, John A.:  
soil survey of—  
Beaver Creek area, Ariz., 11803  
Zuni Mountain area, N. Mex., 15749
- Williams, Llewellyn, growing ginseng, 14742
- Williams, Muriel, relief, 298, 590
- Williams, Peter M., simulation of gaseous core nuclear rocket mixing characteristics using cold and arc heated flows, 12848
- Williams, Robert L., prolonged stage 4 and 1-REM sleep deprivation, EEG, task performance, and psychologic responses, 15900
- Williams, Roger L., reconnaissance of yttrium and rare-earth resources in northern New Jersey, 6674
- Willis, Conrad M., geometric efficiency of electroformed nickel solar concentrator, 14469
- Willis, Doreen D., relief, 9230, 13502, 13600
- Willis, R. P., geology of Arabian Peninsula, Bahrain, 6405
- Williston, N. Dak., District Court term, additional place, report, 12395
- Willmorth, Norman E., influence of screening and overlapping imagery on speed and accuracy of photo interpretation, 14804
- Willow Springs and Sag Junction diversions, Chicago Sanitary and Ship Canal, Ill., 10962
- Willows, stored, relation of visual estimates of decay to specific gravity loss, 2209
- Wilmarth, Harold G., relief, 280, 613, 840
- Willmot, Charles A., engineering and economic aspects of cotton gin operations, Mid South, west Texas, Far West, 12542
- Wilson, Billy F., sediment porosity meter, feasibility study, 10303
- Wilson, Cynthia V.:  
climatology, Northern Hemisphere, 14793  
radioactive fallout in northern regions, 14794
- Wilson, James E.:  
Apollo program pace and progress, 10676  
future national space objectives, 2058
- Wilson, James W., movement and predictability of radar echoes, 6220
- Wilson, Mildred S., euryhaline copepod genus *Eurytemora* in waters of Cape Thompson region, Alaska, 6943
- Wilson, Peter C., inventory of U.S. exploratory longline fishing effort and catch rates for tunas and swordfish in northwestern Atlantic, 14063
- Wilson, R. E., handbook of supersonic aerodynamics, sec. 13-14, viscosity and heat transfer effects, 1542
- Wilson, Ralph A., Project Fire Scan, fire detection interim report, 8106
- Wilson, Richard F., correlation of Upper Triassic and Triassic (?) formations between southwestern Utah and southern Nevada, 6393
- Wilson, Robert W., Jr., Northeastern forest-inventory data-processing system, 11134
- Wilson, Ronald J.:  
landing contact conditions—  
X-15 airplane, 5271  
XB-70 airplane, 11548
- Wilson, Ronald W., cigarette smoking and health characteristics, 10067
- Wilson, Setsuko, relief, 9254, 13602, 17490
- Wilson, N.Y.:  
harbor, engineer report—  
departmental edition, 10963  
document edition, 10510
- Wilson, Woodrow, Memorial Commission, *see* Woodrow Wilson Memorial Commission.
- Wilson's snipes, *see* Snipes.
- Wilt disease, bacterial wilt and Stewarts leaf-blight of corn, 5626
- Wiltzius, William J., effects of monolayers on insects, fish and wildlife, 7102
- Winalski, Patria, model secondary school for deaf art, legislative summary, 8192
- Winchell limestone, *see* Limestone.
- Winchester, Clarence F.:  
effects of protein and energy intake on nitrogen retention and growth of cattle, 1723  
malnutrition of young cattle, effect on feed utilization, eventual body size, and meat quality, 14765
- Wind, *see* Winds.
- Wind River Arboretum, pioneer search for better kind of trees for Northwest, 14147

- Wind River Reservation, lands in trust status, report, 15074
- Wind tunnels:
- ablative heat shield materials for X-15-2, arc-tunnel evaluation, 5238
  - Apollo testing program, historical development of general configurations, 2722
  - interference factors for tunnels of arbitrary cross-section, calculating method, 14393
  - investigation of static aerodynamic characteristics of all-flexible parawing vehicle, 11488
  - low-subsonic, paraglider configuration, free-flight drop-test investigation, 1475
  - tables of interference factors for use in correcting data from VTOL models in wind tunnels with 7 by 10 proportions, 9825
  - tests, subsonic transport with aft engine nacelles and high tail, 5268
- Windber, Pa., demonstration mine using longwall mining techniques, feasibility study and supplement, 7868
- Windbreaks, forest and windbarrier planting and seeding in U.S., report, 8127
- Windeler, A. Stewart, Jr.:  
effect of flow rate on parotid fluid calcium—  
and protein levels, 7363  
magnesium, and protein concentrations in human, 10239
- Window wipers, *see* Windshield wipers.
- Windows:
- controls for automotive vehicles, Federal standard, 6326
  - rear window defogger for automotive vehicles, Federal standard, 6332
- Winds:
- components of 1000-mh. winds of Northern Hemisphere, 6991
  - evaluating winds aloft by simplified field technique, 4838
  - jet streams, parameters and forecasting instructions in Kazakhstan, USSR, 4994
  - launch vehicle wind and turbulence response by nonstationary statistical methods, 15505
  - profiles, sphere behavior, and measurement, 11537
  - Santa Ana winds, 3-dimensional structure, characteristics, 4855
  - surface wind roses, monthly and annual, resultant surface winds, midseasonal, maps, 13989
  - temperature and wind velocity combinations, recurrence in lower 100-m layer of atmosphere, experimental calculation, 11565
  - upper stratosphere and mesosphere measurements, 17012
  - upper wind code, WBAN coding instructions, manual, 18254
  - see also* Solar wind.
- Windshield wipers and washers for automotive vehicles, Federal standard, 6322
- Windward Islands:  
Dominica—  
Bredin-Archbold-Smithsonian biological survey, 5316, 6962, 11612, 14540  
diptera (Anisopodidae and Bibionidae), new species, 6962  
echinoids, 5316  
marine archiannelids, 11612  
Peace Corps program, agreement, 11850
- Wine:
- imports into D.C., limit—  
hearings, 12294  
report, 14993
  - unit for beverage use, tax-free withdrawal from bonded storage—  
law, 16129  
reports, 9088, 15092
- Wing-body combinations, *see* Airplanes.
- Wingate, John W., small store planning for growth, 2857
- Wingate, Robert T., matrix analysis of longitudinal and torsional vibrations in non-uniform multibranch beams, 6886
- Wings (aircraft):  
and wing-body combinations in supersonic flow, integrated approach to analysis and design, 1493  
aspect ratio and curvature variations for axial-flow-compressor-inlet stages under high loading, 9916  
aspect-ratio 6 conical parawing utility vehicle, flight characteristics, 5229  
curved-leading-edge, employing various degrees of twist and camber, aerodynamic characteristics at Mach 2.03, 6874  
delta and double delta flow fields at low speeds, 6724  
delta, sharp-edge, vortex lift, concept based on leading-edge-suction analogy, 2726  
diamond-cross-section delta wing configurations, hypersonic performance, 9884  
fusion welded simulated structure under environment of supersonic transport, fatigue material, 16905  
large semispan tilting wing, etc., aerodynamic data, 1485, 6855, 15557  
leading-edge separation, aerodynamics of slender wing-body combinations, theoretical investigation, 8415  
low-aspect-ratio, ram-air-inflated fabric, static aerodynamic characteristics, 17007  
parawing, all-flexible—  
landing lifting-body spacecraft, low-speed tests, 11550  
wind-tunnel investigation of static aerodynamic characteristics, 11488  
sailwing, aerodynamic characteristics, 14465  
skewed wing-tip controls, effect on variable-sweep wing-fuselage configuration, 8487  
swept arrow wing model with variations in horizontal-tail height, wing height, and dihedral, static stability characteristics, 14473  
swept, wake momentum surveys of boundary-layer skin friction, 2725  
tension-structure parawings, low-speed wind-tunnel investigation, 14454  
tilting, large semispan, with 0.5-diameter chord, single-slotted flap, and single propeller 0.19 chord below wing, aerodynamic data, 9879  
triangular and modified triangular, planform effects on aerodynamic characteristics, errata, 1420  
wing body combinations cranked leading edge, aerodynamic characteristics, 18039
- Winnibigoshish band of Chippewa Indians, *see* Chippewa Indians.
- Winnick, Pauline, it's the latest, it's the greatest, it's the li-ber-ee, 12466
- Winslow, John D., geology and ground-water resources of Portage County, Ohio, 11172
- Winstead, Jack A., mechanism of substrate protection of enolase and lactic dehydrogenase against ionizing radiation, 14774
- Winter:
- construction practices, earthwork, concrete and asphalt survey, 98
  - maintenance of Haines Road, agreement with Canada, 8728
  - winter storms, general information, 17739
- Winter wheat, *see* Wheat.
- Winters, Harold F., vegetable gardening in Caribbean area, 15836
- Wipers (window), *see* Windshield wipers.
- Wire:
- barbed wire command, 14796
  - embedment and other metallurgical and mechanical characteristics of cross-wire resistance welds, 2698
  - film boiling from horizontal wire, laminar flow analysis, 14456

Wire—Continued

- high temperature stranded hookup wire, evaluation tests, 11459
- hot wire techniques in low density flows with high turbulence levels, study, 6841
- material reduces compressor blade vibration, 6824
- matrices, gases flowing through at surface temperatures to 5500° R, forced-convection heat-transfer correlations, 9913
- silver-base ternary alloy proves superior for slip ring lead wires, 5212
- smoke-wire technique for measuring velocities in air, 10293
- teflon insulated, technique for stripping, 8471
- see also Electric wire and wiring—Exploding wires.
- Wire bar supports for reinforced concrete construction, standard of trade, 6919
- Wire communication, demand for flowers-by-wire, 10179
- Wire feed manipulators, manipulator and welding torch, 17993
- Wire mills, scrap and metal consumption and stocks, mineral industry survey, monthly, 3062
- Wire tapping:
  - prohibit wire interception and eavesdropping, hearings, 10858, 17662
  - right of privacy act of 1967, hearings, 12306
  - use by persons other than officers investigating crimes, prohibit, hearings, 15166
- Wiring, see Electric wire and wiring.
- Wireworms, irrigated lands in the West control, etc., 10170
- Wirtz, Willard:
  - addresses, etc.—
    - Jan. 22, 1964, 5033
    - Oct. 18, 1966, 1349
    - Oct. 24, 1966, 1354
    - Oct. 25, 1966, 1353
    - Dec. 28, 1966, 5038
    - Dec. 29, 1966, 5037
    - Feb. 6, 1967, 6589
- Secretary of Labor, accepting on behalf of the President the—
  - Family of Man award (remarks), 1353
  - Margaret Sanger award in world leadership (remarks), 1349
- Wisander, Donald W., wear and friction of polymer laminates in liquid nitrogen and in liquid oxygen, 2693
- Wisconsin:
  - area measurement report, 12036
  - census of agriculture, 1964, State and county statistics, 7506
  - census of manufactures, 1963, area statistics, 165
  - census of mineral industries, 1963, area statistics, 4299
  - climatological data, 3096
  - county business patterns, 1871, 13384
  - electric rate book, 6264
  - hardwood face veneer and plywood—
    - distribution and end-uses, 8074
    - mill closures, 2308
  - iron formations, samples and metallurgical evaluation, 6678
  - landings, fishery products, 3553, 11073
  - mineral industry, minerals yearbook chapter, 6671
  - pollution of interstate and intrastate waters of upper Mississippi River and its tributaries, conference, proceedings, 14052, 15253
  - precipitation data, hourly, 3401
  - soil survey laboratory data and descriptions, 17209
- Wisner, Leland F., scheduled air taxi operators, 9446
- Wispé, Lauren, attitudes and motives of MDTA trainees, pilot, investigation, 5035

- Witches' broom disease, Gymnosporangium clavariiforme in witches'-brooms of Juniperus communis, 8809
- Witnesses, National Advisory Commission on Civil Disorders, investigations, compulsory attendance, testimony, and production of evidence, law, 13541
- Wives, working, their contribution to family income, 11914
- Wolcott, Don E., geology of Hot Springs quadrangle, Fall River and Custer Counties, S. Dak., 12597
- Wolf, Ken, bacterial kidney disease of salmonid fishes, 4802
- Wolf Creek Dam, fish hatchery, establish, hearing, 10665
- Wolf Lake, pollution of interstate waters, progress evaluation meeting, 14053
- Wolf Trap Farm Park:
  - establish—
    - law, 12155
    - reports, 625, 665, 873, 2086
- Wolfe, Jack A., tertiary plants from Cook Inlet region, Alaska, 2365
- Wolfe, William L., handbook of military infrared technology, 8584
- Wolfgang, Marvin E., culture of youth, 7232
- Wolfson, David E.:
  - carbonizing properties of coals from—
    - Fayette and Greenbrier Counties, W. Va., 2376
    - Logan and Mingo Counties, W. Va., 5130
- Wollerman, Edward H.:
  - boxelder bug, 17795
  - locust borer, 9529
- Womack, David P., measurement of dynamic characteristics of soils with penetrometers, 14396
- Women:
  - changing patterns of women's lives, fact sheet, 10136
  - civil and political status, 1966 State legislation, highlights, 11910
  - college, 7 years after graduation, resurvey, 7235
  - Congress, 90th, biographies, 14728
  - continuing education programs, 5607
  - counseling—
    - and guidance, 7236
    - awareness, analysis, action, 13968
  - earnings in poor families, fact sheet, 7238
  - educational attainment, trends, 7239, 14726
  - fact sheets, 7237, 13186
  - employment and training opportunities in professions, selected readings, 1669
  - employment of women with family responsibilities, ILO recommendation, 5990
  - employment, sex discrimination, laws, 17295
  - equal pay—
    - activity in State legislatures, 2974
    - laws by State, 2975
    - under Fair labor standards act, as amended, 7224
  - family and property law, summary—
    - New Jersey, 10138
    - New York State, 10139
    - Ohio, 13187
  - Federal employment of women (periodical), 3280
  - fuller utilization of talents (address), 8798
  - highlights of 1966 State legislation, 11910-911
  - international cooperation on programs advancing status of women, reports of U.S. Government agencies, 8793
  - Job Corps centers, facts, 10908
  - jobs that count in Air Force, 10223
  - jury service, eligibility, laws, 5603
  - legal status in U.S., Maryland, report, 1667
  - mature workers, bibliography, 5597
  - Michigan, upper Peninsula economy, conference, 2977



# INDEX 1967

## Women—Continued

- Negro, in U.S., new roles, new challenges (address), 1668, 10142, 17296
- New York City, counseling and vocational guidance services, 5599
- nonwhite, educational attainment, fact sheet, 13185
- nonwhite workers, fact sheet, 5601
- North Dakota, new horizons, conference report, 5606
- officers in Armed Forces, remove promotion restrictions, etc., amend U.S. code—
  - hearings, 9148
  - report, 10565
- political rights, convention, hearings, 7806, 16410
- professional and technical positions, fact sheet, 5602
- progress—American women, news release, 3776
- serving America as woman marine, 11341
- State labor laws, summaries—
  - Delaware, 8794
  - Feb. 1967 summary, 11907
  - Ohio, 11912
- State legislation of special interest, 10141
- status—
  - progress in 1966, report, 15323
  - statewide meeting of Governor's Commission on Status of Women, held at Des Moines, Iowa, 10143
- unions and changing status of women workers, conference, 5608
- unless we begin now (equal employment opportunity, address), 1932
- war on poverty, conference proceedings, 16481
- why not be an engineer? 11913
- why women work, 13189
- womanpower policies, 17886
- women and the year 2000 (remarks), 4246
- women in poverty, jobs and need for jobs, 14727
- work in Forest Service, career opportunities, 13231
- workers—
  - maximum daily hours, by States, 2976
  - maximum weekly hours, by States, 8795
  - New York State, 1670
  - Oklahoma, 2978
  - Oregon, 2979
  - Pennsylvania, 5610
  - underutilization, 5609
  - United States, background facts, 14725
  - utilization, 18255
- working women and day care needs, consultation, preliminary report, 15820
- Women workers, *see* Women.
- Women's Bureau:
  - bulletins, 5598, 7235
  - leaflets, 5604-5, 11913, 13188
  - pamphlet, 5607
  - publications, list, 5604
- Women's clothing, *see* Clothing—also names or types of clothing.
- Wong, Edgar L., reaction rates of carbon monoxide with hydroxyl radicals and oxygen atoms, 16997
- Wong Ock Wah, *see* Hom Sheek See, and wife.
- Wood, David A., tumors of intestines, 15181
- Wood, Don J., effect of propellant-feed-system coupling and hydraulic parameters on analysis of chugging, 11491
- Wood, Fergus J., Prince William Sound, Alaska, earthquake of 1964 and after-shocks, 12117
- Wood, Robert C.:
  - addresses—
    - Apr. 26, 1967, 11209
    - Sept. 8, 1967, 16716
  - bibliography of published works, 6416
- Wood, Robert E., equation of state for helium-nitrogen mixtures, 8374

- Wood, A. R., Manufacturing Co., President's E award for export excellence presentation (remarks), 4448
- Wood:
  - and related products, trade and tariff information, summaries, 8765
  - Appalachian woods, suitability for sanitary tissue and toweling, 8100
  - aspen characteristics, properties, and uses, review of recent literature, 14134
  - bleaching, 15282
  - brick tile for paneling, 14133
  - charring rate—
    - review of information, 8059
    - selected woods, transverse to grain, 11132
  - composites, industrial evaluation of radiation, 5780
  - construction, picnic shelter, building plan, 5661
  - cordwood yields from thinnings in young oak stands in Missouri Ozarks, 2307
  - decay in houses, how to prevent and control, 17316
  - effect of inorganic salts on pyrolysis determined by dynamic thermogravimetry, 8103
  - fire performance, publications, list, 14081
  - light-induced free radicals in wood, 4846
  - lignin production and detection in wood, 8060
  - members, effect of size on bending strength, 1094
  - modified woods, list of publications, 8054
  - paintability of 2 Hawaii-grown woods, 4843
  - preservation, publications, list, 14083
  - products—
    - home and farm building, selection and use, 7264
    - military support activities, Pacific basin market, 1098
    - probe for accurate determination of moisture content, 2298
    - shavings, economic potentials for baling, in western resource conservation and development project areas, 10920
    - stake tests, comparison of wood preservatives, 1967 progress report, 15281
    - structural design for buildings, Army technical manual, 10273
    - structural elements in tension, horizontal testing machine, 8062
    - untreated, factors influencing decay, 8066
    - used for cabins, rustic work, and unseasoned, protecting from injurious insects in eastern United States, 5627
  - wood-base fiber and particle panel materials, thermal conductivity, 14124
  - see also* Heartwood—Softwood—also names of articles manufactured from wood.
- Wood County, Ohio, soil survey report, 5517
- Wood finishing:
  - painting outside wood surfaces, 1088
  - publications, list, 14082
- Wood poles, *see* Poles.
- Wood preservation, *see* Wood.
- Wood preservatives:
  - comparison in Mississippi post study, 1967 progress report, 11110
  - comparison, stake tests, 1967 progress report, 15281
  - preservative treatment of fence posts and farm timbers, 10165
- Wood pulp:
  - current industrial reports, 3169
  - factors for converting Midsouth pulpwood from cords to cubic feet, 8096
  - harmful pitch in woodpulp, review of methods for estimating, 11112
  - production—
    - north central region, 1965, by county, 2337
    - southern, 2339
  - pulpwood prices in Southeast, 2319, 15286



Wood pulp—Continued  
pulpwood production in Northeast, 4857,  
8122, 14146  
revised table, 17807  
rising pulpwood prices stimulate largest  
Lake States pulpwood harvest, 14101  
*see also* Paper.

Woodcocks:  
hunting, possession, transportation, impor-  
tation in Alaska, 1967-68, Federal regu-  
lations governing, 14061  
research and management, 14068

Woodfin, Richard O., jr., computer program  
for calculating veneer recovery volume and  
value, 16644

Woodhouse, W. W., jr., dune stabilization  
with vegetation on Outer Banks, N.C.,  
16523

Woodlands, *see* Forests and forestry.

Woodmansee, Walter C.:  
mineral industry of—  
Algeria, 2549  
Ethiopia, 6649  
Liberia, 6654  
Libya, 6655  
Malagasy Republic, 6657  
Morocco, 8357  
Nigeria, 6662  
other areas of Africa, 12805  
Senegal, 8363

Woodpulp, *see* Wood pulp.

Woodrow Wilson Memorial Commission, final  
report, 766

Woodruff, Robert E., review of genus  
Eupaxia, etc., review, 15606

Woods, John C., soil survey of Houston and  
Peach Counties, Ga., 14656

Woods, *see* Wood.

Woodward, Henry T., prediction of shock-  
layer radiation from molecular band sys-  
tems in proposed planetary atmospheres,  
6890

Woodworking machinery:  
and equipment, Federal item identification  
guides for supply cataloging, supple-  
ments, 3286  
wood shaper, how to inspect chart, 9692

Woody plants, *see* Plants.

Wool:  
and related data, statistics 1920-64, 1966  
supplement, 13249  
and wool tops, futures trading and open  
contracts, 3366  
automating weaving looms, 1186  
broad woven goods, current industrial re-  
ports, 3170  
consumption on woolen and worsted sys-  
tems, current industrial reports, 3169  
foreign agriculture circulars, 3345  
futures, commitments of traders, 3111  
market news, weekly summary and sta-  
tistics, 3518  
production—  
price and value, 8763  
revised estimates, 1960-64 by States,  
7297  
shorn, 14701  
textiles, depth of cut in tariff rates, 6th  
round GATT trade negotiations, 13354  
wool situation, 4069  
yarn and broadwoven fabric, industry  
wage survey, 15446  
*see also* names of articles or materials  
manufactured from wool.

Woolens, machinery activity, current indus-  
trial reports, 4346, 12083

Woollett, Richard R., magnitude of non-  
linearities in collisionless magnetoplasma  
waves, 5253

Wooten, Elzie H., nomination, hearing, 6123

Worcester, Mass., area wage survey, 15443

Word, John L., static parasitic speed con-  
troller for Brayton-cycle turboalternator,  
17004

Words, memory word line configuration al-  
lows high storage density, 6780

Work:  
changing cultural patterns, 5042  
construction industry safe work guides,  
11302-306  
equal pay for equal work under fair labor  
standards act, 11897  
jobs and mentally restored, memo to psy-  
chiatrists, 5051  
motivational factors affecting Army re-  
search and development personnel, 4228  
platform is supported by self-locking  
blades, 12906  
prisoners, release program for persons  
sentenced by courts of D.C.,  
authorize—  
hearings, 727  
law, 507  
rural youth, what kind of work would you  
like to do? 15222  
when injured at work, Federal employees  
guides, 7921, 15219  
work performance of physically impaired  
workers, 14612  
work statement preparation, AFSC, 5701  
*see also* Employment — Occupations —  
Women.

Work accident costs, 9718

Work injuries, *see* Injuries.

Work Programs Bureau, I see a future, de-  
scription of programs, 17297

Work stoppages, *see* Strikes and lockouts.

Workable program for community improve-  
ment, guide for citizens advisory commit-  
tees, 9579

Workbooks, Atlántida, case study in house-  
hold sample surveys, 10387

Workers, *see* Farm labor—Labor—Personnel  
workers—Volunteer workers—Women.

Working for U.S.A., 14869

Working mothers, *see* Mothers.

Working wives, their contribution to family  
income, 11914

Working women, *see* Women.

Workmanship standards for fusion welding,  
14365

Workmen's compensation, *see* Employers' li-  
ability and workmen's compensation.

Workshops:  
bioengineering research and manpower,  
national workshop, Philadelphia, Pa.,  
Nov. 9, 1965, proceedings, 15703  
sheltered—  
and rehabilitation facilities, standards,  
10129  
pathway to regular employment, 6593  
report of Secretary of Labor to Con-  
gress, 18252  
under fair labor standards act, wage pay-  
ments to handicapped clients, technical  
report, 18252  
Workshop for Baptists on deafness and  
rehabilitation, University of Tennessee,  
2968  
workshop series of Pharmacology Section,  
N.I.H., 17173

World affairs, *see* International relations.

World agricultural production and trade,  
statistical report, 4072

World agricultural situation, review of 1966  
and outlook for 1967, 4702

World atlas of atmospheric radio refractiv-  
ity, 4747

World Communist movement, selective  
chronology, 12206  
print as House document, reports, 10593,  
10787

World Farm Center:  
endorse the concept, resolution—  
hearing, 17634  
report, 13626

World food needs (paper), 16496

World food problem, report of President's  
Science Advisory Committee, 11706-707

World food situation, prospects for world  
grain production, consumption, and trade,  
15209

- World geography II. study guide, 15180  
 World list of future international meetings, 4073-74  
 World motor vehicle production and registration, 8926  
 World power data, capacity of electric generating plants, etc., 1058  
 World production and trade, tallow & greases, 4817  
 World strength of Communist Party organizations, 13155  
 World trade, *see* Commerce.  
 World War, 1914-18, *see* European war, 1914-18.  
 World War, 1939-45:  
     Italian Armed Forces records, guide, 17028  
     Japanese operations in southwest Pacific area, 11992  
     Marine Corps operations, central Pacific drive, 12783  
     neuropsychiatry, in zone of interior, 13311  
     United States Army in World War II, 5096  
 World weather records, 1951-60, Asia, 9435  
 Worldwide military commitments, hearings, 944, 10816  
 Worley, Charles E., micrometer measures of 1164 double stars, 15623  
 Worms, *see* names of worms.  
 Worrell, L. W., motors, spring, weight and animal-powered, classification definition, 18130  
 Worsted:  
     machinery activity, current industrial reports, 4346, 12083  
     systems, consumption, current industrial reports, 3169  
 Worth, Muriel P., public roads, journal of highway research, 3785, 10071  
 Worthington, Norman P., labor requirements in thinning Douglas-fir and western hemlock on 2 experimental forests in western Washington, 4837  
 Wortz, E. C., astronaut capabilities to perform extravehicular functions in weightless conditions, 15507  
 Wounds, transportation of sick and wounded, Army field manual, 100  
 Woven goods, *see* Textiles—Wool.  
 Wrecking:  
     demolition operations—  
         how to inspect chart, 9693  
         occupational safety aid, 9719  
         safety training programs, instructor outline, 1357  
 Wrenches:  
     pneumatic wrench retains or discharges nuts or bolts as desired, 6701  
     single wrench separates nuts from free-floating bolts, 14363  
     ultrasonic wrench produces leaktight connections, 17965  
 Wrestler, Clifton G., jr., drag measurements in stream with sinusoidally fluctuating velocity in longitudinal direction, 5749  
 Wright, Evan B., potential and magnetic moment of superconducting torus in non-axial uniform magnetic field, 9986  
 Wright, Stanton Macdonald, art, retrospective exhibition, 11595  
 Writing:  
     Air Force writing (periodical), 3010  
     and editing positions, printed media, radio, television, etc., examination announcement, 4411  
     amendment, 10418  
     brush up on your writing with these selected U.S. Government publications, list, 17130  
     contest news, hospitalized veterans writing project, 5584  
     need to read and write, adult basic education, leaflet, 10936  
     text-workbook for success in Navy—  
         book 1, 2778  
     Writing—Continued  
         text-workbook for success in Navy—con.  
         book 2, 2779  
         recruit's day-to-day experiences, 2780  
     WS series, 3361  
     Wu, Chang-You, relief, 10543, 13483, 13741  
     Wupatki National Monument, general information, 8563  
     Wurmbrand, Richard, testimony, hearing, print additional copies, report, 12371  
     Wykes, Arthur A.:  
         tissue monoamine oxidase inhibitions by convulsigenic doses of hydrazines and related Be-hydrazones, 4181  
         toxicology of boron hydrides, etc., 7357  
     Wynn, N. A., Jr., costs of storing and handling farmers' stock peanuts in commercial facilities, 10923  
 Wyoming:  
     alpine soils, pot tests of productivity and nutritive status, 2317  
     census of agriculture, 1964, State and county statistics, 8965  
     census of mineral industries, 1963, area statistics, 4300  
     climatological data, 3096  
     county business patterns, 12065, 17428  
     electric rate book, 11027  
     iron ore deposits, description, etc., 5104  
     lodgepole pine, yield tables for managed stands, 11140  
     mineral industries, water requirements and uses, 12796  
     mineral industry, minerals yearbook chapter, 2566  
     natural resources, 2392  
     northwest, gold-bearing sedimentary rocks, preliminary report, 9569  
     phosphate industry and its resources, evaluation, 11370  
     Pierre shale—  
         cretaceous, new echinoid, 2363  
         upper Cretaceous, Red Bird section, 2363  
     postal map, 5402  
     precipitation data, hourly, 3401  
     radioactivity, airborne, 1952-55, maps, 1803  
     reimburse for improvements on lands in Sweetwater County—  
         law, 12161  
         report, 661  
     sedimentary rocks, chemical composition, 14172

X

- X-11 variant of census method II seasonal adjustment program, 5902  
 X-15, *see* Airplanes.  
 X-258 rocket motor, *see* Rockets.  
 X-ray apparatus spectral energy distribution of unfiltered X-rays from 250 kV constant potential machine, 1789  
 X-ray photography, *see* Radiography.  
 X-ray spectra, *see* Spectra.  
 X-ray technicians, training, national conference, proceedings, 2830  
 X-rays:  
     beta excited sources, absorptiometry, interim report, 5770  
     celestial sources, high angular resolution studies program, 8428  
     continuum radiation emitted from high temperature plasmas, to determine electron temperature, 11681  
     crystallographic data, molar volumes, and densities of minerals and related substances, 17818  
     diagnosis, USSR study, 1257  
     diffraction, powder patterns, 15591  
     electron beam parallel X-ray generator, 17983  
     electron beam welder X-rays its own welds, 14423  
     fluorescent excitation using isotopic X-ray emission, 5779

X-rays—Continued  
 improved grazing incidence optics, laboratory program to develop, 6726  
 isotopic sources for portable stress analysis equipment, feasibility, 14809  
 machine simulator, 18191  
 monoenergetic, from alpha emitting isotopes, generation and practical use, 4234  
 packaged disaster hospital X-ray section, establishing, operating, etc., 2822  
 pepsin structure, USSR studies, 12725  
 roentgenograms, bite-wing, use to evaluate dental caries increments, 14321  
 soft, photoionization detector, 9838  
 solar spectrum, reproduced in vacuum, 12895  
 source, uses interchangeable target anodes to vary wavelength, 14424  
 structural crystallography of globular proteins, USSR study, 12726  
 wavelength conversion tables and graphs for qualitative electron probe microanalysis, 17039  
 wavelengths, and X-ray atomic energy levels, 17036  
 XB-70, see Airplanes.  
 Xenon:  
 dilute, viscosity and thermal conductivity coefficients, 11589  
 fluoride solutions effective as fluorinating agents, 12836  
 fluorides show potential as fluorinating agents, 12839  
 forms stable compound with fluorine, 5139  
 Ximenes, Vincente T., nomination, hearing, 10863  
 XV-9A hot cycle research aircraft, see Aircraft.  
 XV-11A, see Airplanes.  
 Xyloterinus politus, see Beetles.

Y

Yakima project:  
 Kennelwick division extension, construction, etc.—  
 hearing, 9319  
 report, 7777  
 Yakobson, Sergius, intellectual ferment in Soviet Union, 4571  
 Yakowitz, H., homogeneity characterization of NBS spectrometric standards 3, white cast iron and stainless steel powder compact, 2737  
 Yakut-Autonomous Soviet Socialist Republic, seismicity of Yakutiya, USSR book, 16769  
 Yakut Scientific and Research Institute of Tuberculosis, meeting, 1333  
 Yang, Kimberly A., relief, 776  
 Yang, Kuo-Hua, relief, 12356  
 Yannakakis, John E., relief, 13607, 13772  
 Yards and Docks Bureau, see Naval Facilities Engineering Command.  
 Yarn:  
 production, current industrial reports, 4347, 17437  
 change sheet, 7482  
 spun, for sale, current industrial reports, 3169  
 Yates, Harry O., III, key to Nearctic parasites of genus *Rhyacionia*, with species annotations, 16649  
 Yaukey, Raymond S., basic data on economy of United Arab Republic (Egypt), 12132  
 Yaw:  
 coupling in turning maneuvers of large transport aircraft, simulator and flight study, 11494  
 Gemini configurations, damping and stability in pitch and yaw, errata, 1474  
 Yeago, Patricia H., education, PACAF basic bibliography, 8866  
 Yearbooks:  
 agriculture, 11st, 8620  
 Intermountain region, Forest Service, 15280

Yearbooks—Continued  
 minerals, 1964, International—  
 departmental edition, 1406  
 document edition, 515  
 minerals, 1965—  
 area reports, domestic—  
 departmental edition, 12810  
 document edition, 12194  
 fuels—  
 departmental edition, 11366  
 document edition, 10495  
 metals and minerals except fuels—  
 departmental edition, 9761  
 document edition, 9049  
 Yellow birch, see Birch.  
 Yellow peach moths, new plant pest, description, etc., 7285  
 Yellow poplar, see Tuliptree.  
 Yellowstone National Park:  
 elk population, control, hearings, 10803  
 general information, 11620  
 Yellowstone (United States ship):  
 deployment to Malta, agreement, 15800  
 Yellowtail Dam and Reservoir, see Missouri River Basin project.  
 Yellowtail unit, see Missouri River Basin project.  
 Yeloushan, Charles C., mineral industry of Pennsylvania, 8362  
 Yemen:  
 background notes, 14669  
 capsule facts for Armed Forces, 15919  
 road of Yemeni revolution, 12754  
 Yen, Yin-Chao:  
 heat conduction in moist porous media, 10256  
 melting problem with natural convection, 17376  
 natural convection in ice melting from below, 7378  
 Yenisey River, central region, spring ice jams, USSR study, 12724  
 Yeomen, 3 & 2, Navy training course, 11668  
 Yerkes, Vern F., weight and cubic-foot relationships for Black Hills ponderosa pine saw logs, 6370  
 YIG, see Garnet.  
 Yim Mei Lam, see Lam, Yim Mei.  
 Yin-Chao Yen, see Yen, Yin-Chao.  
 Yoakem, Delmar, survey of winter construction practices, earthwork, concrete and asphalt, 98  
 Yoda, Renpei, columbium-base alloys, 14344  
 Yollis, Stanley F., talk, Oct. 14, 1965, 8655  
 Yong Ok Espantoso, see Espantoso, Yong Ok.  
 Yoo Young Hui, and daughter, relief, 16183, 17530  
 York, Harold F.:  
 mineral industry of—  
 Rhode Island, 1403  
 Vermont, 1405  
 York, Pa., area wage survey, 11318  
 York-ShIPLEY, Inc., President's E award for excellence in exporting (remarks), 4447  
 Yorktown, Va.:  
 properties within Colonial National Historical park, acquire—  
 law, 16130  
 reports, 12247, 15111  
 Yoruba language, intermediate texts, 8751  
 Yosemite National Park, El Portal site, leases, extend term, report, 15002  
 Yoshida, Howard O., longline fishing for deep-swimming tunas in Marquesas Islands and adjacent areas, 12549  
 Yoshikawa, Kenneth K., analysis of radiative heat transfer for large objects at meteoric speeds, 12958  
 You and the VA, 2964  
 You and your passport, 10096, 18226  
 You as a volunteer, handbook for hospital volunteer workers, 1661  
 You I Souk, relief, 345  
 You, your country, and Navy Nurse Corps, 5342  
 Young, A. Barrie, jr., approach, naval aviation safety review, 3036

- Young, Clarence P., jr., aeroelastic divergence characteristics of unguided, slender-body, multistage launch vehicles, 9883
- Young, Cortland E., jr., overflow system for standard U.S. Weather Bureau evaporation pan, 2318
- Young, John W., trajectory optimization for Apollo-type vehicle under entry conditions encountered during lunar return, 9919
- Young, Joseph W.:  
functional comparison of basic restraint systems, 17413  
recommendations for shoulder restraint installation in general aviation aircraft, 7446
- Young, L. E., magnitude and frequency of floods in United States, Pacific slope basins in California, 11188, 14177
- Young, Marvin P.:  
clamp system for Pharos capacitor bank, 11671  
vacuum clamp switch for Pharos capacitor bank, 9984
- Young, William H.:  
coal, bituminous and lignite, 5099  
thickness of bituminous coal and lignite seams mined, 14327
- Young workers, *see* Youth.
- Youngstown, Ohio, area wage survey, 8308
- Your body and radiation, 7445
- Your career with Federal Power Commission, 4779
- Your child from 3 to 4, 7514
- Your Department of State, 17217
- Your duties as representative payee, 15744, 18211
- Your farm rent determination problem, 17311
- Your Federal income tax for individuals, 2415
- Your name is somewhere in census records, 10400
- Your social security, 5506
- Your talents, let's not waste them (address), 8798
- Youth:  
alternatives to incarceration, studies in delinquency, 10135  
communities, commitment to opportunity (address), 17839  
culture of youth, subculture, dependency status, etc., 7232  
dialogue on adolescence, 4365  
disadvantaged, Office of Education programs, 6192  
disadvantaged young men, they need to learn, can you help Job Corps train them for employment, 7878  
epileptic, identification, recruitment, and placement, technical information for project sponsors, 2488  
facts and figures, 7515  
facts to face about our youth, programs to help, 4728  
fitness test norms and presidential award, 5408  
juvenile delinquency and youth crime, task force report, President's Commission on Law Enforcement and Administration of Justice, 11703  
juvenile delinquency and youth offenses control act, summaries of training projects, 7233  
Lincoln Center's student program opens new world to teenagers, 12465  
manpower development and training act, learn and train for job under MDTA, 13971  
message to young workers about fair labor standards act, as amended in 1966, 8787  
military service, results of examination, 8900  
parents and teenagers, note to agents, 4765  
pennywise teenagers, 15215
- Youth—Continued  
physical fitness, suggested elements of school-centered program, 8617  
President's Youth Opportunity Campaign, 1966, Agriculture Dept., 8833  
profile of youth, 1966, print as Senate document, report, 917  
resident worker, examination announcement, 12111  
runningawayness (address), 8045  
rural—  
changing society, age of transition, 17305  
clubs around world, handbook for developing programs, 16570  
what kind of work would you like to do? 15222  
teens sound off, faculty listens to students' serious evaluation, Lake Oswego High School, 17726  
trustees of posterity (address), 15877  
upward bound, program to help youth from low income families achieve college education, policy guidelines, etc., 9385  
vote of confidence (address), 4247  
youth opportunity campaign, summer 1966, training conducted by Federal agencies for non-college groups employed, report, 7550
- Yo-yo device, tangential despin, on rotating body, 3-dimensional analysis, 6888
- Ytterbium trichlorides, heats of formation, 6683
- Yttrium:  
electrorefining, 15482  
groups 5 and 6 binary and ternary compounds, thermoelectric properties, 16867  
northern New Jersey, potential resources, 6674  
reaction rate of solid yttrium metal with molten lithium fluoride, 15474  
Yttrium iron garnet, *see* Garnet.
- Yu Wen Shi, relief, 9214
- Yuan, S. W., circulation control airfoils by means of jets, 7408
- Yuba River and Valley:  
basin, engineer report—  
departmental edition, 1027  
document edition, 525
- Yugoslavia:  
background notes, 1624  
claims of U.S. nationals—  
agreement, text, regulations, etc., 8050  
timely determination, hearing, 12300  
declaration on provisional accession to GATT, 2895  
economic reform, science, and scientific research work, 6515  
education problems of computer engineering, 1321  
Federal Security Service, replies given by Federal Secretary for Internal Affairs Milan Miskovic to questions asked by employees, 6521  
infectious diseases, current state and organizational problems in preventing and counteracting them, 15400  
mineral industry, minerals yearbook chapter, 16859  
neutron sources, practicability of production and application, 4980  
protocol for accession to GATT, 10100
- Yukon Flats region, Alaska, vegetation, 5725
- Yuma, Ariz., equal employment opportunity program, economic data, 11771
- Yung, Kim Kap, relief, 302
- Yung, Mi Kim, *see* Kim, Yung Mi.

Z

- Zaborsky, John, research on digital adaptive control system, 5170, 14378
- Zacatecas, Mexico, Peshillo mine, geometry of metal distribution, 9771
- Zaffarano, Richard F., natural gas, 2567



Zagoria, Sam:

remarks—

Dec. 7, 1966, 2750

Feb. 23, 1967, 6939

Mar. 27, 1967, 8532

June 28, 1967, 12993

Sept. 27, 1967, 17044

Oct. 20, 1967, 17043

working with automation, 11300

Zaker, Mildred J., voluntary help wanted for war on poverty projects, 9386

Zalovick, John A., NASA research on noise-abatement approach profiles for multi-engine jet transport aircraft, 12956

Zambia:

foreign trade regulations, 10459

investment guaranties, agreement, 2933

labor conditions, 1392

mineral industry, minerals yearbook chapter, 12806

Zaretsky, Erwin V.:

evaluation of high-temperature bearing cage materials, 5274

temperature limitations of ester, etc., base lubricants in ball bearings, 15576

Zettran, cholinesterase inhibition, following oral feedings, 16657

Zeft, Howard J., study of man in oxygen-helium atmosphere, exercise performance and cardiovascular response, 88

Zehnpfennig, T., improved grazing incidence X-ray optics, 6726

Zeigler, Glen, relief, 348

Zeilinger, John E., coal-fired water pump, 1408

Zen, E-An, construction of pressure-temperature diagrams for multicomponent systems after method of Schreinemakers, geometric approach, 2359

Zender, George W., compression tests of open-face truss-core sandwich panels, 5255

Zens, Clarence M., international commerce, 3434

Zerlaut, Gene A., light scattering in highly reflecting pigmented coatings, 14392

Zero gravity:

condensing mercury flow, photographic study, 12939

environment, bubble mechanics, boiling heat transfer, and propellant tank venting, 5164

slosh dynamics study, vehicle and spacecraft description, 11530

see also Weightlessness.

Zero power reactors, see Reactors (atomic).

Zero pressure, thermodynamic properties of nitrogen gas, 6636

Zero surfaces, see Surfaces.

Zeydel, E. F. E., pressure distribution on oscillating panels in low supersonic flow with turbulent boundary layer, 6718

Zhlzn' otdannaya lyubimomu delu (Russian book), review, 1177

Zhukov, G., reminiscences on battles for Moscow, USSR studies, 1287

Ziegler, James F., calculation of inelastic electron scattering by nuclei, 12019

Ziegler, P. N., use of displacement, flash, and depth-of-flash displays for providing control system information, 5354

Zierdt, William H., jr., Army Reserve magazine, 3044

Zikeev, Nikolay T., weather modification in Soviet Union, 1944-66, 17903

Zimmerman, William H., soil survey of Jefferson County, Ky., 8704

Zimmerman pine moth, see Moths.

Zimmet, Steven, public domain, its place in our history, its place today, etc., 2525

Zinc:

deficiency, western field and vegetable crops, 5640

geology of upper Mississippi Valley zinc-lead district (series), 6388

industry, mineral industry survey, monthly, 4075

Zinc—Continued

iron contaminated, refining by filtration and centrifugation, 5125

lead-zinc industry, Pacific northwest, analysis, 11352

lead-zinc industry stabilization—

hearing, 12413

report, 10752

lead-zinc sinter, complex, electric smelting, 14353

liquid, solubility of metals in, data compiled, 12844

mine production, mineral industry survey, monthly, 4076

minerals yearbook chapter, 2592

ores, domestic reserves and potential sources, evaluation, 8340

scrap, mineral industry survey, monthly, 4078

use of steel and tantalum apparatus for molten Cd-Mg-Zn alloys, 8397

zinc-lead district of upper Mississippi Valley, aeromagnetic and tectonic analysis, 4888

Zinc chloride, vapor pressure, SnCl<sub>2</sub>-ZnCl<sub>2</sub> binary system, 16864

Zinc isotopes, Zn-65, distribution in freshwater ponds, 15681

Zinc oxide, mineral industry survey, monthly, 4077

Zinc sulfide, cobalt-doped crystals, bleaching effect under influence of ruby laser pulses, 9926

Zink, James R., spectrochemical analysis of coal ash, 14342

Zinn, Charles J.:

Constitution of U.S., index, etc., 13553

how our laws are made, 10520

reprinting, reports, 10589, 10788

Zinnikas, John D.:

Pacific basin market for wood products for military support activities, 1098

requirements for new housing in Hawaii, 1965-70, forecast, 16664

Zion National Park:

general information, 6987

region, southwestern Utah, Carmel formation, review, 11168

ZIP code:

abbreviations for use with ZIP code, 7043

last word in mail addressing, 1559

Mr. ZIP, who he is, what he does, 5388

postal zone charts, 2790

Zippers, see Fastenings.

Zircaloy, see Zirconium.

Zirconium:

alloys with small amounts of iron and copper or nickel show improved corrosion resistance in superheated steam, 9796

carbide cathodes of solid solutions, evaporation rates, 6532

in hafnium, determination, 9985

mass transfer in stainless steel-Ch-1Zr-potassium system, and effect of stabilization of carbon and nitrogen in stainless steel, 12864

zircaloy-aluminum composite pressure tubing, fabrication process, development, 8907

Zitter, Meyer, revised projections of populations of States, 16014

Zoarcidae, north Pacific Ocean, new genus and new species, 11606

Zoby, Ernest V.:

correlation of free-flight turbulent heat-transfer data from axisymmetric bodies with compressible flat-plate relationships, 5272

isentropic flow solutions for reacting gas mixtures in thermochemical equilibrium, 16979

Zoning, aid to community resource development, 17326

see also Cities and towns—Rural zoning.

# INDEX 1967

- Zoogeography, San Andreas fault, Calif., zoogeographic evidence for late Tertiary lateral slip, 17827      c.
- Zoology:
  - medical and veterinary, index-catalogue, 14-15, 13205
  - valid names, of Portland catalogue, 8546
- Zooplankton, Hawaiian waters, 1955-56, abundance and distribution, 14064
- Zootechnical Research Institute, achievements and problems since founding, Rumanian interviews, 9664
- ZPR-1, *see* Reactors (atomic).
- Zrubek, William E., split phase telecommunications link, 15580
- Zubovic, Peter, distribution of minor elements in some coals in western and southwestern regions of interior coal province, 8153
- Zuni Mountains, soil survey of area, N. Mex., 15749
- Zuniga, Manuel A., relief, 9253, 13495, 13599
- Zusi, Richard, role of depressor mandibulae muscle in kinesls of avian skull, 11610
- Zvezdograd, USSR, space port traced, development, 1251
- Zych, Zofia, relief, 350















